Product Model:YM201/YM30

Version: 2.0

Date: 2020-07-08

replace the cover:

more than 4 second;

into the battery compartment in correct polarities, then

C. Press the button to turn the equipment on, and the

D. After about 8 seconds, the measurement result can be

E. Before reading the parameters, make sure that stable

F. The equipment will turned off automatically within 8

numbers of the pulse oximeter interface has sustained

B. Press the bottom of the equipment and open the

probe, then insert one finger into the probe;

measure interface will appear;

read directly from the display screen:

seconds when the finger left the probe.

end and tighten the lanyard (Figure 3).

1.3 Battery Installation

. Put the two AAA batteries into battery compartment in

correct polarities (Figure 2). B. Push the battery cover horizontally along the arrow

shown as right.

WARNINGS:

 Battery polarities should be correctly installed, otherwise, damage may be caused to the equipment. Please remove the batteries if the equipment will not

use for a long time.

Figure 2 Battery Installation

A. Pass the thinner end of the lanvard through the hanging hole: B. Pass the thicker end of the lanyard through the thinner

Solutions

Replace the finger

The finger size is too big | Select the suitable

nserted deep enough and try again

Figure 3 Lanyard Installation

1.5 Attention for Operation

A. Before use check and confirm that the people or finger size were applicable;

B Refore use check and confirm that the environment should be non-combustible material, as well as to avoid high or low temperature and humidity, but also need to pay attention to the following: a) To avoid glare and direct sunlight exposure;

 To avoid radiation infrared or ultraviolet radiation; c) Avoid contact with the organic solvent, mist, dust.

corrosive gases; . The equipment should not be used at a location or limb tied with arterial canal or blood pressure cuff or receiving ntravenous injection

D. The equipment may not work normally on microcirculation barrier patients. Warm or rub the finger. or re-position the equipment could improve the measurement.

E. The ray between photo detector and light emitting diode should across patient's arteriole. F. The patient should not use enamel or other makeup:

G. Avoid to insert a wet finger into the probe.

A. The user should fully insert the finger into the probe.

B. It is recommended to let the LED light shine directly

C. Don't shake the finger and try to keep the patient still

Figure 4 Finger Placement Diagram

After turning on the oximeter, press and hold the power

button for about 2 seconds. The oximeter will call up the

parameter setting interface and set it by pressing the

hold time reaches 1-2s, short-press indicates that the

1.6 Functions and Menu Operation

1.6.1 The button operation rules

button hold time is less than 0.5s.

on the nail(Figure 4):

during the measurement.

On parameter interface 1

▶ Move"*" to the corresponding option, and hold the button to set Alm or Beep to ON or OFF.

► When Alm is set to on and the measured SpO2 or PR Values go beyond the upper limit or lower limit, the SpO2 or PR numbers will flash.

► When Alm is set to off and the measured values go beyond the limit, the SpO2 or PR numbers would ► When Beep is set to on, A ticking sound synchronized with the pulse is emitted during the measurement, and when Beep is set to off, no sound is output. ► While the "*" symbol stays on the Restore option, hold

the button to restore factory settings. Press the button to select a Brightness level ranging from 0 to 5. The greater the value, the greater the

On parameter interface 2

brightness of the screen.

Press the button to switch between options. On this

button. Defined here, long-press indicates that the button

Alm setup Alm Beep Demo

increment the upper or lower limit; in "-" mode, hold

the button to decrement the upper or lower limit.

► Move "*" to the Exit option, and hold the button to

return to the monitoring interface.

Restore Brightness

Interface2

Sounds setup

PR Alm Hi

Settings

SpO2 Alm Hi 100

SpO2 Alm Lo 94

PR Alm Lo 50

Figure 5 The setting interfaces of the oximeter

interface, you can set the upper limit and lower limit of SpO2 Alm and PR Alm. ■ While the "*" symbol stays on the +/- option, hold the button to set the option to + or -. In"+"mode, select

the corresponding option and hold the button to

Settings Operating mode: Degree of protection against hazards of explosion: IP22

Degree of protection against electric shock: Interface1

Power frequency

nagnetic fields

should be at levels

2.2 Power Requirements Specification of battery: Two AAA (LR03) Operating current: 25-50mA 2.3 Physical Specifications

2 Specifications

2.1 Classification

Type of protection against electric shock:

II (Internally powered equipment

Type BF-Applied part

0% ~ 69%: unspecified

Recommended separation

survey, a should be less than

the compliance level in each

frequency range b

Spot checking

Width*Height*Depth: 57×30×31 mm 28g (Bare machine) 2.4 Measurement Specifications SpO2 declared accuracy 70%~100%: ±2digits

SpO2 Display Range: 30%~99%

SpO2 Resolution: PR declared accuracy: 25~250 bpm: ±3digits PR Resolution:

Co-Oximeter.

light color and white.

2.5 Environmental Specifications

Storage/Transportation: 50~107.4kpa

Storage/Transportation: -4~+140°F / -20~+60°C

Storage/Transportation: 10~95%, noncondensing

supported by clinical studies covering the entire claimed

range. The fraction of inspired oxygen (FiO2) delivered to

steady-state saturation periods over the specified SpO2

accuracy is calculated by comparing SpO2 readings of the

2)The clinical trial included 11 subjects, including 6 males

pulse oximeter to the values of SaO2 determined with a

and 5 females, with an age range of 18 to 46 years, the

subjects skin color included dark black, medium black,

test subjects is varied to achieve a series of targeted

accuracy range (e.g. 70 % to 100 %), then the SpO2

+50~+104°F/+10~+40°C

10~95% noncondensing

YM201: 0.96 inch. Yellow&Blue

OLED Display;

Temperature

Operating

Humidity

Operating:

2.6 Display

Display Type:

Display Color:

Notes:

Display content:

Atmosphere Pressure

3.1 Maintenance

The equipment's design life expectancy is about 2 years. keep your equipment and accessories free of dust and dirt. and follow these rules:

3 Maintenacne Cleaning Disinfection

A. Please clean the equipment before use according to chapter 3.2:Remove the batteries insidethe battery cassette if the equipment will not be operated for a long

B. Replace the batteries in time when the battery voltage indicate lamps were empty; C. It is recommended that the equipment should be kept

in a dry environment with no corrosive gases and good YM301: 1.3 inch .Blue SpO2%, Pulse Rate, PI%, Bar Graph ventilation anytime. The moisture and high-light environments will affect its lifetime and even might Battery Indicator, Pulse Wave

damage the equipment. D. It is best to preserve the product in a place where the 1)The claim for oxygen saturation accuracy should be temperature is between -20 to 60°C and the relative

> E. The packed equipment can be transported by ordinary conveyance. The equipment not be transported mixed with toxic, harmful, corrosive materials.

humidity is less than 95%.

No modification of this equipment is allowed.

acetone-based cleaners)

3.2 Cleaning

cleaning agents are:

b) Ethanol (70%)

a) Mild soap (diluted).

3.3 Disinfection Clean the pulse oximeter before disinfecting it. The

Never use ETO or formaldehyde for disinfection.

recommended disinfectant is ethanol 70%. Disinfection

Dispose of the pulse oximeter in accordance with local environment and waste disposal laws and regulations.

3.4 Disposal

4 Accessories

One lanyard. Two AAA batte One user man One certificat

steps are the same as cleaning.

Trouble	Possible Reason	Solut
The device	The batteries are drained away or almost drained away.	Replace b
can not be turned on	The battery installation is incorrect.	Install th over aga
	The device works abnormally.	Please co product o

size finger to measure Avoid the excessive are not Excessive ambient light ambient light irradiation displayed User's blood perfusion | Warm the finger normally is very low The device was set to shut down automatically in 8 The display seconds when there is no Normal is off correct physiological signals The battery is almost Replace batteries

drained away

The finger is not

Trouble Possible Reason

teries(Optional). nual. te card.				
ng				
ble Reason	Solutions			

5 Troubleshooting			The fire and in abolding an		
Trouble	Trouble Possible Reason Solutions		The Spo2 and PR	The finger is shaking or the body is moving	Try to keep still
The device	The batteries are drained away or almost drained away.	Replace batteries. displayed stabily		Not used in the work environment required by this manual	Please use in normal working environment
can not be turned on	The battery installation is incorrect.	Install the battery over again.		The device works abnormally.	Please contact the product distributor
	The device works abnormally.	Please contact the product distributor			
				12	

The equipment complies with the requirement of standard EN

6 Appendix A EMC

60601 -1-2:20 14 "Electromagnetic Compatibility - Medical Electrical Equipment"

Guidance and manufacturer's declaration - electromagnetic emission The model YM201/YM301 is intended for use in the electromagnetic environment specified below. The customer or the user of the model YM201/YM301 should assure that it is used in such an environment.

Emissions test	Compliance	Electromagnetic environmen guidance
RF emissions CISPR 11	Group 1	The Model YM201/YM301 uses RF ei 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 CISPR 11	Class B	The YM201/YM301 model is suitable for use in all establishments, including domestic establishments and

SISPR 11	Group 1	low and are not likely to cause any interference in nearby electronic equipment.
emissions	Class B	The YM201/YM301 model is suitable for use in all establishments, including domestic establishments and
Harmonic missions 61000 -3-2	Not applicable	establishinens and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.

fluctuations / flicker emissions IEC 61000 -3-3 Guidance and manufacturer's declaration - electromagnetic

Immunity

Electrostatic

discharge

61000-4-2

± 8 kV contact

±2 kV. ±4 kV. ±8

kV. ±15 kV air

immunity			
Model YM201/YM301 are intended for use in the electromagnetic nvironment specified below. The customer or the user of the Model YM201/YM301 should assure that it is used in such an environment.			

guidance
Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material.
the relative humidity should be at least 30 %.

supply lines transient / burst 100 kHz repetition 61000-4-4 ± 1 kV for input/output lines kV differential mode 61000-4-5

N/A

	for 0.5 cycle at 0°, 45°, 90°, 135°,180°, 225° , 270°, and 315°	
Voltage dips, short interruptions and	0 % UT (100 % dip in UT) for 1 cycle at 0°	
voltage variations on power supply	70 % UT (30 % dip in UT) for 25/30 cycles at 0°	N/A
input lines	0 % UT (100 % dip in UT) for 250/300 cycle	

61000-4-11 at 0

line-line

30 A/m. characteristic of a magnetic field typical location in a typical commercial or hospital 61000-4-8 environment. NOTE: UT is the a. c. mains voltage prior to application of the test level Guidance and manufacturer's declaration - electromagnetic

immunity
The Model YM201/YM301 are intended for use in the electromagnetic environment specified below. The customer or the user of the Model YM201/YM301 should assure that it is used in such an environment.

test	test level	level	- guidance
RF IEC 1000-4-6	3 Vrms 150 kHz to 80 MHz 6 Vrms 150 kHz to 80 MHz outside ISM bandsa	N/A	Portable and mobile RF communications equipment should be used no closer to any part of the device, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.

80 MHz to 10 V/m output power rating of the transmitter in watts (W according to the transmitter manufacturer and d is the recommended separation distance in metres(m). Field strengths from fixed RF transmitters, as determined by an electromagnetic site

biects and people. MHz 3.5 MHz to 4.0 MHz 5.3 MHz

MHz, 18,07 MHz to 18,17 MHz,

and 50,0 MHz to 54,0 MHz.

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,

The ISM (industrial, scientific and medical) bands between 0.15 MHz d 80 MHz are 6 765 MHz to 6.795 MHz: 13.553 MHz to 13.567 MHz: 26.957 MHz to 27.283 MHz: and 40 66 MHz to 40 70 MHz. The

amateur radio bands between 0,15 MHz and 80 MHz are 1,8 MHz to 2,0 o 5,4 MHz, 7 MHz to 7,3 MHz, 10,1 MHz to 10,15 MHz, 14 MHz to 14,2

Interference may occur in the

vicinity of equipment marked

with the following symbol:

insmitters in these frequency ranges.

21,0 MHz to 21,4 MHz, 24,89 MHz to 24,99 MHz, 28,0 MHz to 29,7 MHz

To clean your equipment, follow these rules: a) Shut down the nulse ovimeter b) Clean the display screen using a soft, clean cloth ampened with a glass cleaner: c) Clean the exterior surface of the equipment and

> probe using a soft cloth dampened with the cleaner: d) Wipe off all the cleaning solution with a dry cloth after cleaning if necessary; e) Dry your equipment in a ventilated, cool place.

Your equipment should be cleaned on a regular basis. If

there is heavy pollution or lots of dust and sand in your

place the equipment should be cleaned more frequently

Before cleaning the equipment, consult your hospital's

regulations for cleaning the equipment. Recommended

To avoid damage to the equipment, follow these rules:

 Always dilute according the manufacturer's instructions or use lowest possible concentration Do not immerse part of the equipment in the liquid.

 Do not pour liquid onto the equipment or accessories Never use abrasive materials (such as steel wool or silver polish), or erosive cleaners (such as acetone or

 If you spill liquid onto the equipment, contact us or your service personnel.

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e-orienting or relocating the YM201/YM301.

d Over the frequency range 150 kHz to 80 MHz, field strengths should be

The compliance levels in the ISM frequency bands between 150 kHz and

80 MHz and in the frequency range 80 MHz to 2,7 GHz are intended to

decrease the likelihood that mobile/portable communications equipment

could cause interference if it is inadvertently brought into patient areas. For

this reason, an additional factor of 10/3 has been incorporated into the

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

fue to fixed RF transmitters, an electromagnetic site survey should be

considered, If the measured field strength in the location in which the

model is used exceeds the applicable RF compliance level above, the

model should be observed to verify normal operation. If abnormal

performance is observed, additional measures may be necessary, such as

formulae used in calculating the recommended separation distance for

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