10. ABOUT US

Driven by the passion for innovation, we at Dr Trust endearour to provide our customers with the latest medical inventions with an objective to promate good health and wellness all around the world. All the medical devices and health monitors provided by Dr Trust are supported by occurate, latest and ground breaking technologies, innovated at our headquaters in MY, USA. All our products and health proceditioners. Our products are designed in the fumate samplay ways to ensure that their occuracy and convenience or univalled. The ease of their use and operation makes them even more suitable for users of all age groups.

Dr Trust strives to enhance the quality of lifestyle by provide any with the most trusted and innovative health care and wellness products. Being a renowned global leader in health care products. Being a renowned global leader in health care products, Dr Trust ensures that our technically efficient team works dynamically and trielessly to provide the best of the medical devices to que releast. The products that we have to affer an suitably designed for use at homes, lebestrations and besignifies.

Our ground breeking scliption, all & you to manner your health in the existed ways possible. In the drop, we wire all of our lives are too hasted to handle, it becomes a bit difficult to any attention to make the handle with the name to be a first of the manifering devices which combs conveniently used at homes and even on the go.

We bring to you a variety of best self medical devices, trusted and used by Doctors, medical professionals and home users all over the world.



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Dr Trust® FINGERTIP PULSE OXIMETER Professional Series (Blue) 202





Scan to View Product Demo www.drtrustusg.com/202

Thank you for purchasing the Dr Trust Fingertip Pulse Oximeter Professional Series (Blue) 202. Please read this manual carefully to operate it with care and safety.

Please visit www.drtrustusa.com

Dr Trust Dr Trust[®] TABLE OF CONTENT 1. INTRODUCTION The Dr Trust Fingertip Pulse Oximeter Professional Series (Blue) 202. based on all digital technology, is intended for noninvasive spot-INTRODUCTION 3 check measurement of functional oxygen saturation of arterial hemoglobin (SpO2). Advanced DSP algorithm*can minimize the PRODUCT FEATURES 3 influence of motion artifact and improve measurement accuracy of low perfusion*. The Oximeter can be used to measure human SAFETY INSTRUCTIONS 3 Hemoglobin Saturation and heart rate through finger. The product is suitable for family, hospital (including clinical use in internist/surgery, PRODUCT SETUP 5 anesthesia, pediatrics, intensive care etc.) oxygen bar, social medical organizations, physical care in sports etc. **OPERATIONS** it takes not of helow mentioned measurements DSP Algorithm: Digital signal processor algorithm. CLEANING & DISINFECTION Low Perfusion: In physiology, perfusion is the process of a body delivering blood to a capillary bed in its biological tissue. Under TROUBLESHOOTING & MAINTENANCE 10 the condition of low perfusion, the measurement of non-invasive saturation of pulse-blood oxygen is low-accurate. Plethysmograph: It is an instrument for measuring changes in TECHNICAL SPECIFICATIONS 11 volume within an organ or whole body (usually resulting from fluctuations in the amount of blood or air it contains) CUSTOMER SUPPORT 13 PI (Perfusion Index): It is the ratio of the pulsatile blood flow to the non-pulsatile static blood flow in a patient's peripheral tissue. 10. ABOUT US 14 such as fingertip, toe, or ear lobe. Perfusion index is an indication of the pulse strength at the sensor site. 2. PRODUCT FEATURES

checks. Automatically switch off Standard two AAA 1.5V alkaline battery support more than 20 hours continuous work 3. SAFETY INSTRUCTIONS

perfusion)

Lightweight for carrying & easy-to-use. Manually adjust the direction of interface. Color OLED display, simultaneous display for testing value

Low Perfusion: 0.2%. (Advanced DSP algorithm can improve measurement accuracy, under the condition of low

Visual & Sound reminder functions for real-time spot-

and plethysmogram*.

Low Battery voltage indicator.

Below are key instructions for the Safe operation and use of the Dr Trust Fingertip Pulse Oximeter Professional Series (Blue) 202.

Dr Trust® 1. Do not attempt to service the Dr Trust Fingertip Pulse Oximeter

Professional Series (Blue) 202. Only qualified service personnel should attempt any needed internal servicing.

 Prolonged use or the patient's condition may require changing the sensor site periodically. Change sensor site and check skin integrity, circulatory status and correct alignment at least every 2 hours.

 SpO2 measurements may be adversely affected in the presence of high ambient light. Shield the sensor area (with a surgical towel, or direct sunlight, for example) if necessary.

The following reasons will cause interference to the testing accuracy of the Dr Trust Fingertip Pulse Oximeter Professional Series (Blue) 202.

- High-frequency electrosurgical equipment.
 Placement of a sensor on an extremity with a blood pressure cuff arterial catheter, or intravascular line.
- The patient has hypotension severe vasoconstriction severe anemia or hypothermia.
- The patient is in cardiac arrest or is in shock.
 Figure and patient or false figure route in account.
- Fingernail polish or false fingernails may cause inaccurate readings.

WARNINGS

- Do not use the Dr Trust Fingertip Pulse Oximeter Professional Series (Blue) 202 in the presence of flammable anesthetics or other same category materials as explosion may occur.
- Do not throw batteries in fire as this may cause them to explode.
- Do not attempt to recharge normal dry-cell batteries, they may leak. And may cause a fire or even explosion.
 Do not use the Dr Trust Finantia Pulse Oximeter
 - Professional Series (Blue) 202 in an MRI or CT environment.

 Do not modify this equipment without authorization of the manufacturer.
- If this equipment is modified, appropriate inspection and testing must be conducted to ensure continued safe use of equipment.
- Keep the operating environment free of dust, vibrations, corrosive or flammable materials and extremes of temperature and humidity.

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- condensation or spills. Avoid using the equipment immediately after moving it from a cold environment to a warm, humid location.

 Never use sharp or pointed objects to operate the front-
 - Never use sharp or pointed objects to operate the trontpanel switches.

 The batteries must be taken out from the battery
- The batteries must be taken out from the battery compartment if the device will not be used for a long time.
- The device shall only be used if the battery cover is closed.
- The batteries must be proper disposed according to local regulation after their use.
- The device should keep away from the children and pets to avoid swallowing.

CAUTIONS

- The device cannot be used to measure the child below 3 years as the test result is not guarantee to accurate.
- It is intended only as an adjunct in patient assessment. It must be used in conjunction with other methods of assessing clinical signs and symptoms.
- A function tester cannot be used to assess the accuracy of a Fingertip Pulse Oximeter monitor or sensor. Clinical testing is used to establish the SpO2 accuracy. The
 - measured orteriol hemoglobin saturation value (\$pC2) of the sensor is compared to arterial hemoglobin saturation value (\$pC2) of the sensor is compared to arterial hemoglobin oxygen(\$pC2) value, determined from blood samples with a laboratory CO-oximeter. The occuracy of the sensors in comparison to the CO-oximeter samples measured over the \$pC2 range of 70 100%. Accuracy data is calculated using the root-mean-square (Arms value) for all subsets.

4. PRODUCT SETUP

4.1 Description of the Front Panel

Table Part D	Part Definition and Description		
ltem	Name	Description]
1	Power Button	Turn on the machine	1
2	Direction Button	conveniently in any direction	
3	OLED Panel	Display the SPO2/PR data & Plethysmogram	

Battery

Compartment

4.2. Display

After switching on, the OLED display of the Dr Trust Fingertip Pulse Oximeter is as follows:

To Put Batteries



Figure 3.2.1 OLED display

4.3. Parameter setting

When the device is under measuring interface, press the direction button for 1 second in order to enter into menu page. There are two submenus for choice.

4.4. Remind Setup

Press the direction button for 1 second and enter into the Reminder Setup, User can adjust the setting through moving the "*" symbol to the back of the Sound Reminder, Beep, Restore or Brightness

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4.5. Sound Reminder

Press the direction button for 1 second, move the "*" symbol to the back of Sound Reminder, long press the direction button to turn it on/off.

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(Note: If the measured value exceeds the maximum or minimum value of SPO2 or PR, there will give off sound when sound reminder is turned on.)

4.6. Beep

Press the direction button for 1 second, move the "*" symbol to the back of Beep, long press the direction button to turn it on/off. (Note: When Beep is turned on, the sound emitted during the test indicates the pulse rate sound)

4.7. Restore

When the "*" symbol shows behind "Restore", long press of the direction button can be changed to "OK", which causes the device to restore factory data setting.

4.8 Demo

Press the direction button for 1 second, move the "*" symbol to the back of Demo, long press of the direction button to turn it on/off. 4.9. Brightness When the "*" symbol show on "Brightness", long press the direction

button to change the Brightness value from 1 to 5. When the * symbol show on the Reminder Setup, long press the direction button until enter into the Reminder Limit setup menu. User can press the direction button to select the items. And press the direction button for 1 second to change the data you need. On the Reminder Limit setup menu page, when the * symbol show

behind the "+/-". Press direction button for 1 second to change When "+" shows on the right side, press the direction button for 1 second, move the "*" after the Spo2 Hi or PR Hi setting, can increase the value to a higher value (until it reaches to the highest.)

Remind Setup Sound Reminder Beep Demo Restore	on off on OK
	oĸ
Brightness Exit	4

the "+" to "-" or change the "-" to "+".

Limit Setup Sp02 Hi Sp02 Lo PR Hi PR Lo +/-	* 100 94 130 50
Exit	
Figure (b)	

Figure (a)

When "." shows on the right side, press the direction button for 1 second, move the "" after the Spo2 Lo or PR Lo value setting, can reduce the value to a lower value (until it reaches to the lowest).

1.The sound reminder have 1 second delay after the incorrect result being detected.

 The customer can preset the limit value to the 98 or 99 to check whether it is normal for sound reminder setting.

5. OPERATIONS

5.1. Install battery

Install two AAA batteries into battery cassette in correct polarities and cover it



WARNING: Donot attempt to recharge normal alkaline batteries, they may leak and may cause a fire or even explode.

5.2. Turning the Pulse Oximeter On

Put one of fingers into rubber hole of the Oximeter (it is best to put the finger thoroughly) with nail surface upward, then releasing the clamp.





Press power button for 2 seconds to turn the Pulse Oximeter ON.

The oximeter will be automatically powered off when no finger in the device for longer than 16 seconds.

5.3. Read correspondent data from display screen.

Read pulse rate, PI, SPO2 data & Plethysmography on easy to read display.

5.4. Display Description of OLED

The display interface of "OLED" can rotate four directions with six different display modes after pressing the direction button for less than 0.5s. It is shown as below: Type 1
%SpO₂ cm PR bom

Type 2

%SpO₂ CIII PR bpm 98 PI% 5.5 75

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Type 3
%SpO₂ cm PR bom

Type 4

98 75 Type 5 udq ad ID 20ds% ISZ 86 5'5 %ld

1111111111 PR by 25.5

Spo.2% B

Note:

- When battery power is at lowest level, the battery capacity indicates symbol of " "in OLED, remind users of replacement of battery.
- The plethysmography can been regarded as correct if the wave is fluctuated regularly.
- 6. CLEANING & DISINFECTION

A. Cleaning

Switch off the power and take out the batteries before cleaning.
 Keep the exterior surface of the device clean and free of dust and dirt.

 Cleaning exterior surface (OLED display screen included) of the unit with a dry and soft cloth.

unit with a dry and soft cloth.

Use 75% density of medical alcohol to clean the surface and use
dry fabric with little alcohol to avoid alcohol permeates into the

device. B. Disinfection

 Disinfect the machine after every use especially when multiple patients uses the machine in the hospital.

 Use 75% density of medical alcohol to clean the surface that contacting with the patient.

CAUTIONS

- Don't use strong solvent. For example, acetone. Never use an abrasive such as steel wool or metal polish.
- Do not allow any liquid to enter into the product, and do not immerse any parts of the device into any liquids.

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Avoid pouring liquids on the device while cleaning. Don't let remain any cleaning solution on the surface of the device

7. TROUBLESHOOTING & MAINTENANCE

7.1. Troubleshooting

Problems	Possible Reason	Resolutions
		103010113113
Oxyhemoglobin or heart rate cannot be shown normally	Finger is not plugged correctly. Patient's perfusion is too low to be measured.	Retry by plugging the finger. Try some more times, if you can make sure about no problem existing in the graduct, please go to a hospital timely for exact diagnosis.
Oxyhemoglobin of heart rate is shown unstably	Finger might not be plugged deep enough Finger is trembling, or patients body is in movement status	Retry by plugging the finger Try not to move, Let the patient keep calm.
Oxyhemoglobin or heart rate is abnormal and cause sound reminder	Finger is not plugged correctly. Patient's SPO2&PR is abnormal.	Retry by plugging the finger Go to the hospital for further examination.
The Oximeter cannot be powered on	Power of batteries might be inadequate or not be there at all Batteries might be installed incorrectly The Oximeter might be damaged	Please replace batteries Please reinstall the batteries Please contact with local customer service center
The screen are suddenly off	1. The product is automatically powered off when no signal is, detected longer than 10 seconds 2. Power quantity of the batteries is exhousted.	1.Normal 2.Replace the batteries

7.2. Maintenance

Replace the batteries timely when battery indication is low clean surface of the Fingertip Pulse Oximeter before it is used in diagnosis for patients.

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- Remove the batteries inside the battery cassette if the oximeter will not be operated for a long time.
 - It is better to preserve the product in a place where ambient temperature is -25°C to 55°C (-13°F-131°F) and humidity is 15%-93%
 - Regular inspection to make sure that no obvious damage existed to affect the safety and performance of device.
 - No flammable substance overtops, or lower temperature and humidity existed in operation conditions.

8.TECHNICAL SPECIFICATIONS

Physical Characteristics		
MachineDimensions	73 mm (L) x 37mm (W) x 38mm (D)	
Weight approx	70g±2g(including 2 x AAA battery)	

Classification Anti-electric Shock Type Internally powered equipment Anti-electric Shock Degree | Type BF equipment EMC Type B Mode of operation Continuous Operation

Enclosure Degree of ingress protection: IP22 (IP22 means shell of this product can withstand the water dropping

surface.) Power

nterna	2xAAA 1.5v alkaline battery	ī
Power	Smaller than 45mA(Normal)	
consumption		

to the surface when the shell deviate 15 degree from horizontal

Environmental Condition

Operating Temperature	5°C to 40°C
Storage Temperature	-25°C to 55°C
Relative Humidity	15% to 93% non-condensing
Air Deserves	70Kna-104Kna

Upper limit: 130 /bottom limit:50 Electronics Parameters

Sound Reminder Limit default value:

Hemoglobin Saturation Display		35-100%
Pulse Rate D	Display	30-250 BPM
Resolution	Hemoglobin Saturation	1%
	Pulse rate	1 BPM
Measure Accuracy:	Hemoglobin Saturation	±2% (90%-100%) ±3% (70%-90%),Unspecified (<70%)
	Pulse rate	±1 BPM
	Display	0-20%
PI	Resolution	0.1%
	Measure Accuracy	0-1%: 0.1% 1-20%: 1%

Probe LED Specification

	Wavelength	Radiant Power
RED	660±2 nm	1.8 mW
Infra-RED	905±2 nm	2.0 mW

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