12. 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 promote good health and wellness all around the world. All the medical devices and health monitors provided by Dr Trust are supported by accurate, latest and ground breaking technologies, innovated at our headquarters in NY, USA. All our products othere to the most stringpent CE and FDA guidelines and are strongly recommended by doctors and health proclitioners. Our products are designed in the furnost exemploy ways to ensure that their occurroy and convenience are univalled. The ease of their use and operation makes them even more suitable for users of all age groups.

Dr Tust 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 pradiate, Dr Tinst ensures that our technically efficient team works dynamically and frielessly to provide the best of the medical devices to gue devices to provide that we have to after any suitably designed for use at home, and the provide that we have to after any suitably designed for use at homes, leberatories and hospitals.

Our ground breaking activities all & you to man for your health in the existed ways possible in feddy. See when a la of our lives are too hassled to handle, it becomes a bit difficult to pay distalline to handle, it becomes a bit difficult to pay distalline in a company of the monitoring devices which can be conveniently used at Tempes 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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Thank you for purchasing the Dr Trust USA Signature Fingertip Pulse Oximeter (Black) - 201. Please read this manual carefully to operate it with care and safety.

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TABLE OF CONTENT 1. INTRODUCTION The Dr Trust USA Signature Fingertip Pulse Oximeter (Black) - 201, based on all digital technology, is intended for noninvasive spot-1. INTRODUCTION 3 check measurement of functional oxygen saturation of arterial hemoglobin (SpO2), Advanced DSP algorithm*can minimize the 2. PRODUCT FEATURES 3 influence of motion artifact and improve measurement accuracy of low perfusion*. The Oximeter can be used to measure human 3. SAFETY INSTRUCTIONS 3 Hemoalobin Saturation and heart rate through finger. The product is suitable for family, hospital (including clinical use in internist/surgery, 4. PRODUCT SETUP 5

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organizations, physical care in sports etc. It takes note of below mentioned measurements; *DSP Algorithm: Digital signal processor algorithm. *Low Perfusion: In physiology, perfusion is the process of a body 6. CLEANING & DISINFECTION delivering blood to a capillary bed in its biological tissue. Under the condition of low perfusion, the measurement of non-invasive 7. TROUBLESHOOTING & MAINTENANCE 10 saturation of pulse-blood oxygen is low-accurate.

12 13 14

fluctuations in the amount of blood or air it contains) * 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, such as fingertip, toe, or ear lobe. Perfusion index is an indication of the pulse strength at the sensor site. 2. PRODUCT FEATURES Lightweight for carrying & easy-to-use. Manually adjust the direction of interface. Color OLED display, simultaneous display for testing value and plethysmogram*. Low Perfusion: 0.2%. (Advanced DSP algorithm can improve measurement accuracy, under the condition of low perfusion.) Visual & Sound reminder functions for real-time spotchecks Low Battery voltage indicator. Automatically switch off. Standard two AAA 1.5V alkaline battery support more than 20 hours continuous work 3. SAFETY INSTRUCTIONS Below are key instructions for the Safe operation and use of the Dr Trust USA Signature Fingertip Pulse Oximeter (Black) - 201. www.drtrustusa.com

anesthesia, pediatrics, intensive care etc.) oxygen bar, social medical

*Plethysmograph: is an instrument for measuring changes in

volume within an organ or whole body (usually resulting from

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5. OPERATIONS

8. TECHNICAL SPECIFICATIONS

9. CUSTOMER SUPPORT

10. ABOUT US

Pulse Oximeter (Black) - 201. Only qualified service personnel should attempt any needed internal servicing.

2. Prolonged use or the patient's condition may require changing the sensor site periodically. Change sensor site and check skin intearity.

sensor site periodically. Change sensor site and check skin integrity, circulatory status and correct alignment at least every 2 hours.

3. SpO2 measurements may be adversely affected in the presence of high ambient light. Shidd the represence for the control of the control o

high ambient light. Shield the sensor area (with a surgical towel, or direct sunlight, for example) if necessary. The following reason will cause interference to the testing accuracy of

the Dr Trust USA Signature Fingertip Pulse Oximeter (Black) - 201.

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.
- Fingernail polish or false fingernails may cause inaccurate readings.

WARNINGS

- Do not use the Dr Trust USA Signature Fingertip Pulse Oximeter (Black) — 201 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 USA Signature Fingertip Pulse
 - Oximeter (Black) 201 in an MRI or CT environment.

 Do not modify this equipment without authorization of the manufacturer.
- 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.

 Do not operate the unit if it is damp or wet because of 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 frontpanel 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 pests 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

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

Centrol stangs is seen of selections are specification and specification are specifications are sensor is compored to arterial hemoglobin oxygen (SPO2) value, determined from blood samples with a laboratory CO-oximeter. The occurracy of the sensors in composition to the CO-oximeter control of the composition of the SPO2 range of 70 - 100%. Accuracy data is calculated using the root-mean-square (Arms value) for all subjects.

4. PRODUCT SETUP

4.1 Description of the Front Panel



ltem	Name	Description	1

Part Definition and Description

Item	Name	Description
1	Power Button	Turn on the machine
2	OLED Panel	Display the SPO2/PR data & Plethysmogram
3	Battery Compartment	To Put Batteries

4.2. Display

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



Figure 4.2 OLED Display

Parameter Setting

Press the direction button for one second, the oximeter will enter into parameter setting. There are two submenus for choice.

When the * signal shown on the Alarm Setup, press the direction button for 1 second and enter into the Sound Setting menu. Press the direction button for 1 second to turn on/off the alarm and beep.

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When the * signal on the Sound setup, press the direction button for 1 second and enter into the Alarm Setting menu, you can press the direction button in turn to select the item. And press the direction button for 1 second to change the data you need On the sound setup menu when the * signal shown on front of the

"+/-", sign "+" on the right side can be changed to "-" by pressing the direction button for 1 second. When "+" shows on the right side, press the direction button for 1

second can increase the SPO2 and PR's highest and lowest alarm value When "-" shows on the right side, press the direction button for 1

second can reduce the SPO2 and PR's highest and lowest alarm value. On the alarm Setup menu, when the "*" signal shown on "Restore", press the direction button for 1 second, the right side

can be changed to "OK", which cause the device to restore factory setting data. Demo Mode On the Alarm setting menu, you can set the device in demo mode,

which shows how the device can change six different display modes by short pressing Direction button. Turn off the demo mode by long pressing of Direction button. Note: In demo mode, device can not perform the detecting function.

Change Brightness

On the Alarm Setup menu, when the * signal shown on "Brightness", the brightness takes a float from 1 to 5 by long

pressing of Direction button. 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

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On the Reminder Limit setup menu page, when the * symbol show behind the "+/-". Press direction button for 1 second to change the "+" to "-" or change the "-" to "+".

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	on
Beep	off
Demo	on
Restore	0K
Brightness	4
Exit	

imit Setup Sp02 Hi Sp02 Lo PR Lo	* 100 94 130 50
Exit	

Figure (a) Figure (b)

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).

Note:

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

2. 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: Do not attempt to recharge normal alkaline batteries. they may leak and may cause a fire or even explode.

5.2. Turning the Pulse Oximeter On/OFF

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.

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Press power button for 2 seconds to turn the nulse oximeter ON. The oximeter will be automatically powered off when no finger in the device for longer than 16 seconds



5.3. Reading the Correspondent Data from Display Screen. Read pulse rate, Pl, 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 0.5 second. It is shown as below:



Type 3	Type 4
"SpO ₂ @ PR bpm 198 75 PI% 5.5	187 88 IRT 88

Type 5	турс о
98 98 PR bpm 75 5.5	Spoz% = 98 PR bpm 75 15.5 15.5

Note: 1. When battery power is at lowest level, the battery capacity

indicates symbol of " "in OLED, remind users of replacement of battery

2. The plethysmography can been regarded as correct if the wave is fluctuated regularly.

6. CLEANING & DISINFECTION A.Cleanina

Switch off the power and take out the batteries before cleanina.

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- 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 dath.
 - 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 use 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 into the product, and do not
- immerse any parts of the device into any liquid.
 Avoid pouring any liquid on the device while cleaning.
- Don't let remaining any cleaning solution on the surface of the device.

7. TROUBLESHOOTING & MAINTENANCE

7.1. Troubleshooting

Problems		Resolutions
Problems	Possible Reason	Resolutions
heart rate cannot be	plugged correctly.	 Retry by plugging the finger. Try some more simes, if you can make sure about no problem existing in the product, please go to a hospital timely for exact diagnosis.
Oxyhemoglobin of heart rate is shown unstably	not be plugged deep enough	Retry by plugging the finger Try not to move, Let the patient keep calm.

		DA 10 BL
Oxyhemoglobin or heart rate is abnormal and cause sound reminder	1 Finger is not plugged correctly. 2 Patient's SPO2 & PR is abnormal.	Retry by plugging the finger Go to the hospital for further examination.
The Oximeter connot be powered on	Rower of bottleries might be inadequate or not be there of all Rower installed incorrectly Rower installed incorrectly Rower installed incorrectly Rower installed incorrectly	Rease replace botteries Rease reinstall the batteries Rease contact with local customer service center
The screen are suddenly off	1.The product is automatically powered off when no signal is defected longer than 16 seconds 2. Power quantity of the batteries is exhausted.	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.
 - Remove the batteries from 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 (-13П-131П) 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.

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8. TECHNICAL SPECIFICATIONS General Data

Dimensions - 62 mm (I) x 34 mm (W) x 31 mm (d) Net Weight - 50g (including 2xAAA battery)

Internal Power - 2 x AAA 1.5v alkaline battery

Power Consumption - Smaller than 30 mA (Normal)

Operating temperature - 5°C to 40 °C

Storage Temperature - (-10°C to 50 °C) Relative Humidity -15% to 93% non-condensing

Air Pressure - 70Kpa-106Kpa

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Environmental ractors		
Operating Temperature	5°C to 40°C	
Storage Temperature	-25°C to 55°C	
Relative Humidity	15% to 93% non-condensing	
Air Pressure	70Кра-106Кра	

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

Probe LFD Specification

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

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9 CUSTOMER SUPPORT CONTACT ADDRESS

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