StressLocator & Sleep as Android

Alert Stresslocator Oximeter

User's Guide

Customer Support
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Introduction

Congratulations on purchasing Alert Stresslocator Oximeter. Your new product measures blood oxygenation and heart rate, it is a comfortable, light-weight, portable device for non-invasive, on the spot measuring, able to transmit the data to your smartphone via bluetooth. There are 2 intelligent alarms - one for SPO2 and the other for heart rate decrease, which will wake you up, when your testing results are beyond the normal range! This guide will help you set up and operate the device.

Disclaimer

The Alert Stresslocator Oximeter is no professional medical device and should be used by healthy individuals and only after a proper introduction.

Compatibility

The Alert Stresslocator Oximeter is designed to work with Android devices running the operating system Android 4.3 or higher that are quipped with bluetooth, compatible with StressLocator and Sleep as Android apps.

Package content

- Alert Stresslocator Oximeter
- 2x soft foam sensor
- charging cable
- user's guide
Specifications

Bluetooth
version 4.0
BLE - Bluetooth Low Energy

Measurement Range
Spo2: 35~100 %
Accuracy: ± 2 % (80~100 %); ± 3 % (70~79 %)
Pulse Rate: 25~250 BPM
Accuracy: ± 2 bpm

Environment

Temperature
Working: 5~40 °C
Storage: -10~50 °C

Humidity
Working: 15~80%
Storage: 10~90%

Product description

The Alert Stresslocator Oximeter measures blood oxygenation and heart rate. The device is optical-based - two beams of different wavelength of light screen the blood vessels and capillaries of your finger; more precisely of the nail tip, and that through the finger sensor.

Results showing 96% - 99% are considered to be normal. Greater height above sea level and other factors may affect the measurement results.

Measurement Principle

Operation principle of the instrument is Photoelectric Oxyhemoglobin Inspection Technology is adopted in accordance with Capacity Pulse Scanning and Recording Technology, so that two beams of different wavelength of lights (660nm glow and 940nm near infrared light) can be focused onto human nail tip through perspective clamp finger-type sensor. Then measured signal can be obtained by a photosensitive element, information acquired through which will be shown on two groups of LEDs through process in electronic circuits and microprocessor.

Arterial oxygen saturation is measured by a method called pulse oximetry. It is a continuous, non-invasive method based on the different spectra absorption of hemoglobin and oxyhemoglobin (called spectrophotometer principle). It measures how much light, sent from light sources on the other side.

Diagram of Operation Principle
Advice and warnings

- Do not use the oximeter nearby sources of strong magnetic resonance.
- Do not use the device and a blood pressure monitor with a cuff on the same arm at the same time.
- To ensure proper functioning, keep the device clean.
- For precise measuring, your finger must be clean.
- The following factors may reduce the accuracy of the measurement:
  - blinking or very strong light
  - strong transmitters (e.g. television, radio) may affect precession of the oximeter
  - low perfusion
  - low hemoglobin level
  - hypotension, severe vasoconstriction, severe anemia or hypothermia
- Use the SpO2 sensor delivered with the device or a sensor which the manufacturer has approved. As a user, you are responsible for checking the compatibility.
- Do not use in flammable environment.
- Do not use in an environment that does not fulfill the operating and storage requirements.
- The Alert Stresslocator Oximeter is fragile, try to avoid any strong pressure, knock or vibration that could damage it.
- The device is not made of any health damaging materials.
- The package of the device is recyclable and must be handled in accordance with local laws.
- All unrecyclable parts of the StressLocator Oximeter must be handled in accordance with local laws.

First start

Directions for use

1. Plug the sensor into the body of the oximeter
2. Turn the device on by pressing the power button
3. Fix the sensor on patient's finger as shown on the image below
**Display Introduction**

![Display Diagram]

**Operating button explanation**

**Power on:** Long touch “POWER/FUNCTION” button, machine starts up and enter main menu.

**Power off:** If the sensor is dropped off for 10 seconds, the machine will automatically power off.

**Function Description**

- When the product is powered on (as shown in Figure 5), short touch the “POWER/FUNCTION” button, the main interface will be reversed and the function of buzzer will be activated. (as shown in Figure 6)
- Short touch the “POWER/FUNCTION” button again, the main interface will be reversed to the obverse side and the function of buzzer is still available. (as shown in Figure 7)
- If you want to shut down the buzzer, short touch the “POWER/FUNCTION” button and the main interface will be reversed, the buzzer will be shut down at the same time. Short touch the “POWER/FUNCTION” button again, the main interface will be reversed to the obverse side and the buzzer still remains unavailable.
- The product will automatically power off when no finger is in the device for longer than 10 seconds. (as shown in Figure 8)
- Long touch the “POWER/FUNCTION” button, to enter the main menu or to select or to switch the option
- Short touch the “POWER/FUNCTION” button, to go through the menu

![Figure Images]
Usage with applications

Usage with the StressLoctor app

1. Download and install the StressLocator app from Google Play
2. Turn the device on
3. Go to the settings menu of your Android device
4. Select the “bluetooth” option
5. Switch “bluetooth” to “on”
6. It is NOT possible to pair BLE Stresslocator, appropriate connection is made directly in the app
7. Start the app
8. Select “Start” in the main menu
9. In the Device menu, select “BLE StressLocator”, put it on your finger and start measurement

Usage with the Sleep as Android app

1. Download the Sleep as Android app from Google Play
2. Go to the settings menu of your Android device
3. Select the “bluetooth” option
4. Switch “bluetooth” to “on”
5. It is NOT possible to pair BLE Stresslocator, appropriate connection is made directly in the app
6. Enable Settings – Wearables – Pulse Oximeter, put the device on your finger and start sleep tracking

If you have any problem with this app, please send us a report and we will help you solve it

Cleaning and Disinfection

Cleaning

1. Clean the product with cotton or soft cloth moistened with water.
2. After cleaning, wipe off the water with a soft cloth.
3. Allow the product to air dry.

Disinfection

The recommended disinfectants include: 70% ethanol, 70% isopropanol, glutaraldehyde (2%) solution disinfectants.

1. Clean the product as instructed above.
2. Disinfect the product with cotton or soft cloth moistened with one of the recommended disinfectants.
3. After disinfection, be sure to wipe off the disinfectant left on the product with a soft cloth moistened with water.
4. Allow the product to air dry.