Wellue FS20F Pulse Oximeter Fingertip Saturation Monitor User Guide

Contents

Wellue

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Specification

- **Brand** Wellue
- **Color** White
- **Number of Batteries** 2 AAA batteries are required. (included)
- **Battery Life** 1 year
- **Are Batteries Included** Yes
- **SpO2 Range** 70%-100%
- **PR Range** 25-250 bpm
- **Recommended Age** 12 Years Old

What’s In the Box

- Saturation Monitor

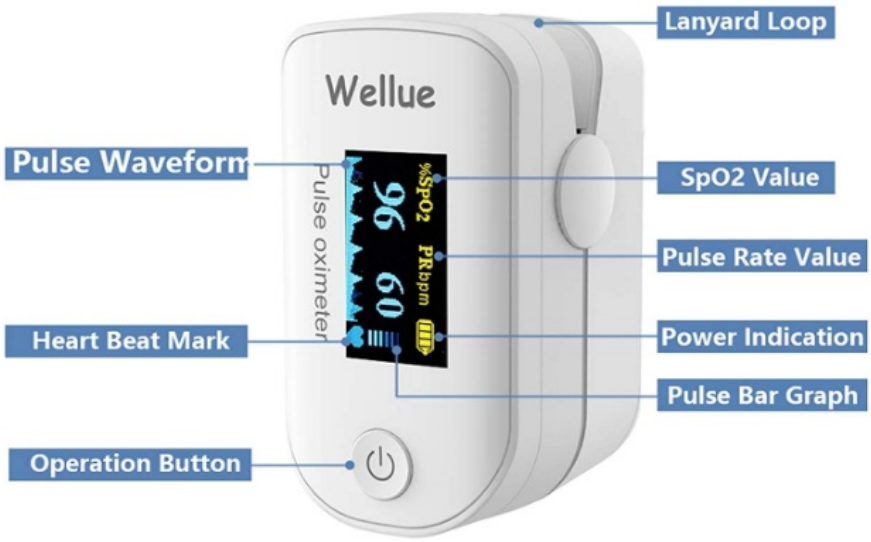
Introduction

We are committed to creating solutions that are highly accurate yet user-friendly, searching for a simpler and more advanced approach to track your wellness since we believe doing so will give you the peace of mind you need to live a healthier and longer life.

Improved Quality OLED Screen with Recent Upgrades

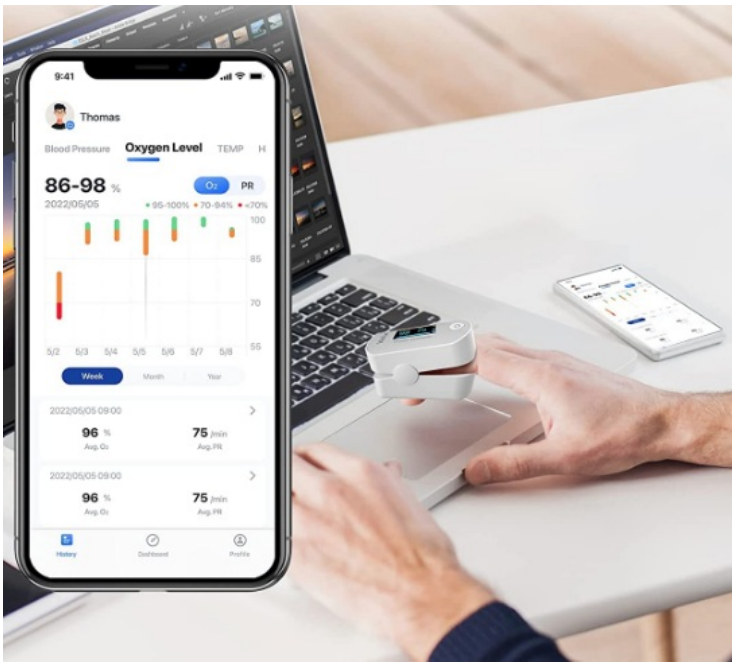
Get a 2.0 high-quality screen at only a 1.0 LED price.

Product Layout



Capturing Data in An APP

It is advised to keep a bandage on a finger for no longer than five minutes at a time.



Smart Bluetooth Technology

The FS20F Bluetooth Oximeter automatically and securely syncs the measurement readings to the free ViHealth app over Bluetooth. The software gives you a rapid summary by storing an infinite amount of past data.

Modernized OLED Display

Our oximeter’s freshly improved OLED screen is sharper, displays more colors, and showcases your readings in both numbers and pulse waves, in contrast to the frequently used low-cost LED screens. Experience a premium OLED screen at an LED price.

Carrying Ease

Its volume is small, it has a lovely aesthetic, and it feels well in your hand. With its portability, you may collect measurements at any time and anywhere.

Safety Contraindications

Do not use an oximeter in a magnetic resonance (MR or CT)environment.

Warnings: Keep the oximeter away from young children. Small parts such as the battery door, battery and lanyard may trigger choking hazards.

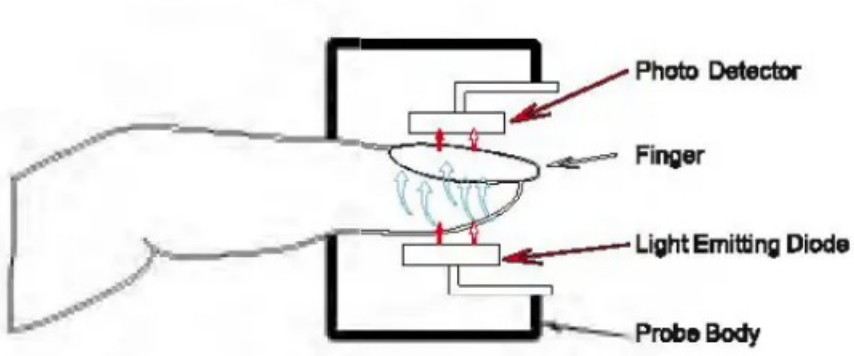
Cautions

- Do not use an oximeter in the presence of flammable anesthetics.
- The oximeter needs to be used according to the information provided in the user manual.
- The equipment is NOT intended for neonates and infants.
- Do not use a damaged oximeter which may affect measurement performance.
- Do not place the oximeter on the same hand/arm when using a blood pressure cuff or monitor.
- Do not use the oximeter for more than 5 minutes without relocating the device to another finger.
- Do not place the oximeter on edema or fragile tissues.

- Do not use the oximeter in high-frequency environments such as electrosurgical equipment.
- Do not place the oximeter in liquid.
- Follow local disposal and recycling laws for the oximeter and its components, including the battery.
- Do not stare at the light(the infrared is invisible) which is emitted from the oximeter and is harmful to the eyes.
- The equipment is just a clinical diagnosis of auxiliary equipment. The physiological data displayed on the equipment are for reference only and can not be directly used for diagnostic interpretation.
- Please don't use the thumb and tail fingers to measure.
- Discomfort or pain may appear if using the equipment ceaselessly, especially for microcirculation barrier patients, it is recommended that the equipment should not be used on the same finger for more than 5 minutes.

The principle of the oximeter is as follows

An experience formula of data process is established taking use of Lambert-Beer law according to Spectrum Absorption Characteristic of Reductive hemoglobin(Hb)and oxyhemoglobin(HbO2)in glow & near-infrared zones. The Operation Principle of the device is: Photoelectric Oxyhemoglobin Inspection Technology is adopted in accordance with Capacity Pulse Scanning Recording Technology So that two beams of different wavelengths of light can be focused onto a human nail tip through a perspective clamp finger-type sensor. Then measured signal can be obtained by a photosensitive element, information acquired through which will be shown on screen through treatment in electronic circuits and microprocessors.

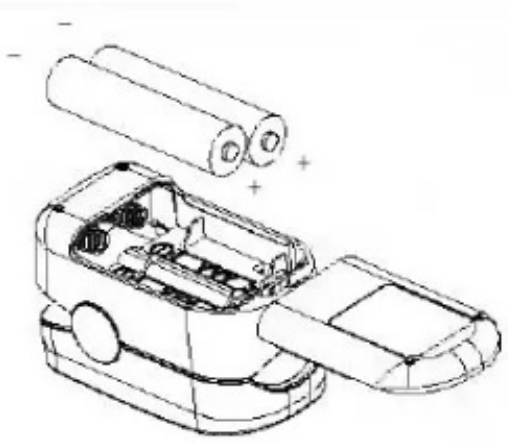


Symbols

Symbol	Definition	Symbol	Definition	Symbol	Definition	Symbol	Definition
%SpO2	The Pulse Oxygen Saturation (%)	SN	Serial Number	+	Battery positive electrode		BF type applied part
PR	Pulse Rate (BPM)		The device has no Alarm System	−	Battery cathode electrode		Manufacturer
IPX2	The product is protected against harmful effects of dripping water per IEC 60529.		Date of Manufacturer		Caution, consult accompanying documents		
	Power indication(some models have no battery capacity indicator, but have low battery indicator)						

Battery Installation

- A. Put the two AAA batteries into the battery compartment in the correct polarities.
- B. Push the battery cover horizontally along the arrow shown as right.



Functions

- OLED Display
- Spo2 parameter measurement
- Pulse rate parameter measurement
- Bar graph display
- Battery display
- Automatically enters sleep mode
- Pulse waveform display

Features

- **RELIABLE AND ACCURATE**
  Measures your heart rate, pulse strength, and pulse waveform accurately and displays the data on a big OLED screen for convenience.
- **ALERTS READINGS**
  When the SpO2 or pulse rate exceeds the limit, the value on the screen flashes. Watch your SpO2 and PR levels.
- **FREE APP FOR iOS AND ANDROID**
  Use the app for no extra charge. Enter a reading into the APP and save it (ONLY record when APP is running). See heart rate and blood oxygen saturation trends as well as real-time data in a graphic report.
- **SIMPLE TO USE**
  Just clip it to your finger to take a reading, then switch it on with the push of a button. A wide range of finger sizes is supported by the finger probe with the SMART Spring System.

FAQs

What is the difference between the FS20A and FS20F?

The FS20A is a non-Bluetooth version of the FS20F. The FS20F has Bluetooth technology built in, allowing you to sync your data to your smartphone or tablet.

What is the difference between the FS20A and FS30?

The FS30 is a Bluetooth-enabled oximeter that can sync with a smartphone. It also has a more advanced app that allows you to track your data over time.

How do I pair my device with my smartphone?

To pair your device with your smartphone, press the power button for 3 seconds until the screen flashes red and blue. Then, open up the ViHealth app on your phone and follow the instructions.

Can I use this device if I have an artificial heart valve?

Yes, you can use this device if you have an artificial heart valve. However, please be aware that it will not be able to measure SpO2 levels accurately in these cases.

Can I use this device if I have a pacemaker?

Yes, you can use this device if you have a pacemaker. However, please be aware that it will not be able to measure SpO2 levels accurately in these cases.

How long should a finger be kept in an oximeter?

Put your index or middle finger into the pulse oximeter as far as it will go. The pulse oximeter will turn on when your finger is inside. 3: Place your hand down on a flat surface with your fingernails pointing away from you. Keep your hand relaxed and still for 1 minute

What to do before using a pulse oximeter?

Wash your hands before and after you use the pulse oximeter. The pulse oximeter attaches to your finger and doesn't hurt. Make sure the finger you are going to use does not have any nail varnish or a false nail on it.

How does a pulse oximeter know how much oxygen is in your blood?

The pulse oximeter uses a cold light source that shines a light through the fingertip, making the tip appear to be red. By analyzing the light from the light source that passes through the finger, the device is able to determine the percentage of oxygen in the red blood cell.

Which hand is more accurate for an oximeter?

In conclusion, SpO2 measurements from the fingers of both hands with the pulse oximetry, the right middle finger, and right thumb have statistically significantly higher values when compared with the left middle finger in right-hand dominant volunteers.

Which finger to use in a pulse oximeter?

As per the studies, your right hand's middle finger shows the best results. Make sure to take off any nail polish and avoid using on cold fingers as the readings may not show correctly.

How accurate is finger oxygen?

Prescription oximeters typically have an accuracy rate that's around 4% above or below a reading. So an oxygen level of 92% could actually be as low as 88% or as high as 96%. Pulse oximeter readings also tend to be most accurate at levels higher than 90%

Should you clean a pulse oximeter?

The device must be cleaned and disinfected after each individual use and, at minimum weekly, prior to use on another patient.

Why is oxygen saturation important?

Oxygen saturation is an essential element in the management and understanding of patient care. Oxygen is tightly regulated within the body because hypoxemia can lead to many acute adverse effects on individual organ systems. These include the brain, heart, and kidneys.

What is the standard reading for a pulse oximeter?

An ideal oxygen level is between 96% and 99% and an ideal heart rate is between 50 and 90 beats per minute (bpm). The oxygen level may be lower in some people with lung conditions, even when they are feeling well. If

you have an existing lung condition, please check with your doctor about what your readings should be.

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