

## Santamedical SM-1100S

# Santamedical Generation 2 Fingertip Pulse Oximeter User Manual

MODEL: SM-1100S

## 1. Introduction

The Santamedical Generation 2 Fingertip Pulse Oximeter is designed for quick and precise measurement of pulse rates and blood oxygen saturation levels (SpO<sub>2</sub>). This device features a self-adjusting finger clamp and a simple one-button operation for ease of use. Its compact and portable design makes it suitable for use at home, during sports, and recreational activities.

## 2. Important Safety Information

- This device is intended for sports and aviation use only and is not intended for medical use.
- Readings may vary on darker skin pigmentation and can make oxygen levels appear higher than they may be. Please consult the manual for detailed information.
- Statements regarding dietary supplements have not been evaluated by the FDA and are not intended to diagnose, treat, cure, or prevent any disease or health condition.

## 3. Box Contents

- Santamedical Generation 2 Fingertip Pulse Oximeter
- Neck/Wrist Lanyard
- User Manual
- 2 AAA Batteries



Image: Box contents of the Santamedical Generation 2 Fingertip Pulse Oximeter.

Video: An official product video demonstrating the unboxing and contents of the Santamedical SM-1100S Pulse Oximeter, including the device, batteries, lanyard, and user manual.

## 4. Setup

### 4.1 Battery Installation

1. Open the battery compartment cover located on the back of the device.
2. Insert the two AAA batteries, ensuring correct polarity (+ and -) as indicated inside the compartment.
3. Close the battery compartment cover securely.



Image: The Santamedical Generation 2 Fingertip Pulse Oximeter, ready for battery installation.

## 5. Operating Instructions

### 5.1 Taking a Measurement

1. Ensure the device has fresh batteries installed.
2. Open the clamp by gently pressing the button on the side.
3. Insert one finger (preferably the index finger) into the rubber opening of the oximeter, ensuring the finger is placed correctly.
4. Release the clamp.
5. Press the power button once to turn on the device.
6. Keep your hand still. The SpO2 and Pulse Rate readings will display on the OLED screen within a few seconds.



Image: Proper finger placement for taking a measurement with the pulse oximeter.

## 5.2 Display Modes

The device features a bright OLED display with 6 different display modes. Press the power button repeatedly to cycle through the available display orientations and formats. This allows for easy viewing from various angles.

# Patent Six Display Modes



Image: Examples of the six display modes available on the device.

## 6. Tips for Accurate Readings

- Nails should be clean and free of nail polish or artificial nails.
- Ensure hands are warm before taking a reading.
- Remain as still as possible during the measurement process.
- Avoid taking readings in direct sunlight or strong artificial light.

Video: An official product video demonstrating the usage of the Santamedical SM-1100S Pulse Oximeter, including tips for accurate readings.

## 7. Maintenance

- Clean the device regularly with a soft cloth dampened with alcohol. Do not immerse the device in liquid.
- Remove batteries if the device will not be used for an extended period to prevent leakage.
- Store the oximeter in a cool, dry place, away from direct sunlight and extreme temperatures.

## 8. Troubleshooting

| Problem                   | Possible Cause   | Solution   |
|---------------------------|--|--|
| No display after power on | Batteries are dead or incorrectly installed                      | Replace batteries or re-install correctly                      |
| Unstable readings         | Finger not inserted properly, movement, cold finger, nail polish | Re-insert finger, remain still, warm hands, remove nail polish |
| "Finger out" message      | Finger not detected  | Ensure finger is fully inserted and resting on the sensor      |





Image: The pulse oximeter, illustrating its display and finger placement area.

## 9. Specifications

- **Model Number:** SM-1100S
- **Product Dimensions:** 4.1 x 2.9 x 1.9 inches; 3.53 ounces
- **Measuring Range:** 30 - 255 bpm (Pulse Rate)
- **SpO2 Resolution:** +/- 2%
- **Pulse Rate Resolution:** +/- 2 bpm
- **Power:** 2 AAA batteries (included)
- **Battery Life:** 30+ hours of continuous monitoring
- **Display:** Bright OLED display with 6 modes
- **Features:** Low battery level indicator, automatic power off after 10 seconds.



Image: Detailed view of the device's bright OLED display.

## 10. Warranty and Support

Santamedical offers a no-hassle 1-year warranty for this product. For customer service and support, please refer to the contact information provided in the user manual included with your device or visit the official Santamedical website.

For additional information or to explore other Santamedical products, visit the [Santamedical Store](#).

### Related Documents - SM-1100S



#### [SantaMedical SM-210/SM-220 Fingertip Pulse Oximeter Operator's Manual | Specifications & Guide](#)

Comprehensive operator's manual for the SantaMedical SM-210/SM-220 Fingertip Pulse Oximeter. Learn about its features, technical specifications, measurement principles, operation, maintenance, troubleshooting, and safety precautions for accurate SpO2 and pulse rate monitoring.

