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Zacurate 500C Elite

Zacurate 500C Elite Fingertip Pulse Oximeter User Manual

Model: 500C Elite

1. Introduction

The Zacurate 500C Elite Fingertip Pulse Oximeter is designed for non-invasive spot-checking of arterial oxygen saturation (SpO2) and pulse rate. This device is intended for sports and aviation use, such as mountain climbing, high-altitude activities, and running. It is not a medical device and is not intended for medical diagnosis or treatment. Key features include an OLED screen with plethysmograph, auditory alarms for SpO2 and pulse rate limits, auditory pulse beeps, and adjustable display brightness.

2. Product Overview

The Zacurate 500C Elite Pulse Oximeter provides accurate and reliable measurements of your SpO2 and pulse rate. Its compact design and user-friendly interface make it suitable for various activities.

2.1. Components



Figure 1: Zacurate 500C Elite Pulse Oximeter with labeled parts including the OLED display, finger opening, and control button.

2.2. Dimensions



Figure 2: Dimensions of the Zacurate 500C Elite Pulse Oximeter.

3. Setup

3.1. Battery Installation

The device requires two (2) AAA batteries. To install:

1. Open the battery cover located at the rear of the device.
2. Insert two AAA batteries according to the polarity indicators (+/-) inside the compartment.
3. Close the battery cover securely.

Note: Ensure batteries are inserted correctly to avoid damage to the device.

3.2. Attaching the Lanyard

A lanyard is included for convenient carrying. Follow these steps to attach it:

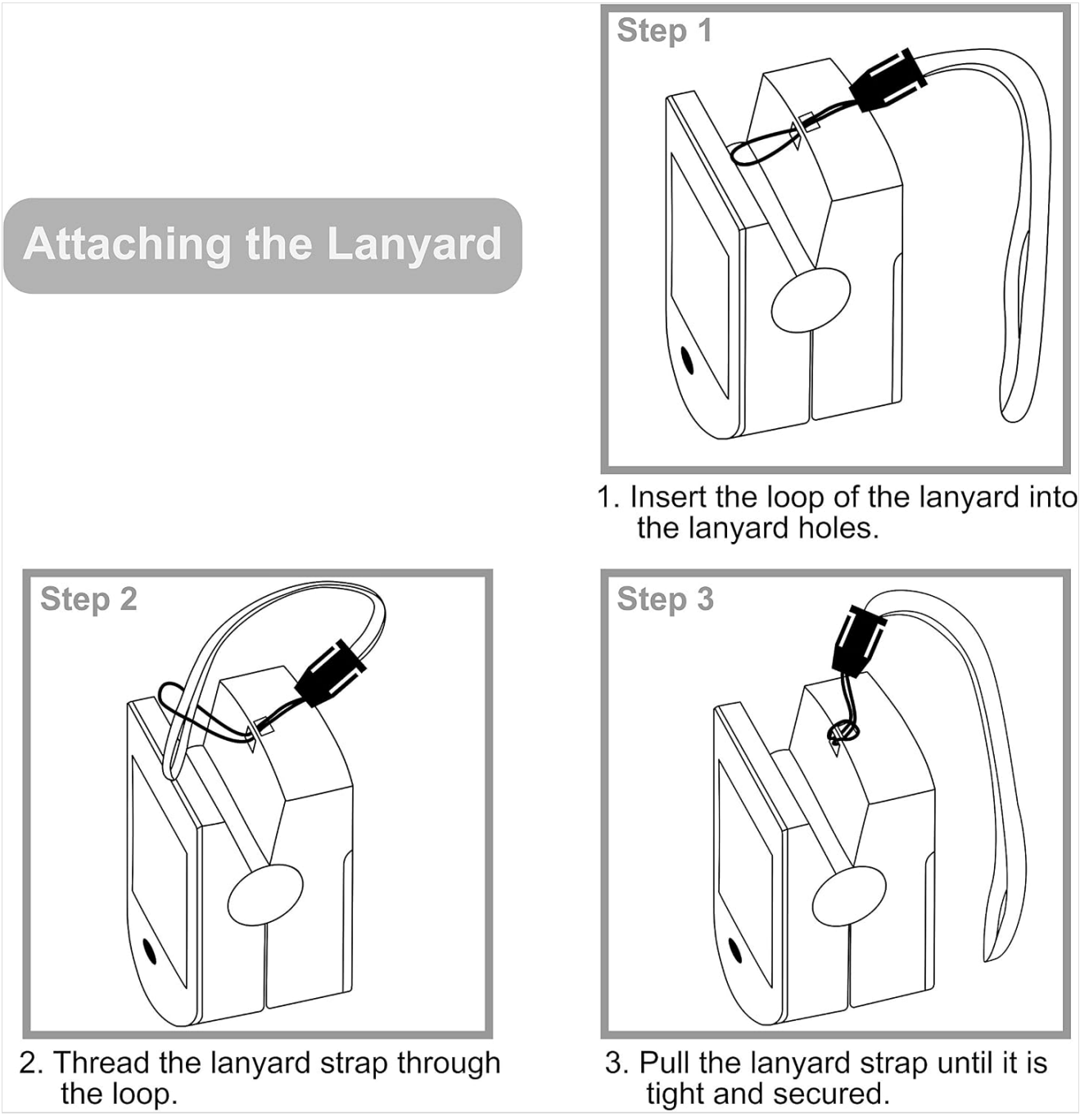


Figure 3: Instructions for attaching the lanyard.

1. Insert the thin end of the lanyard loop into the lanyard hole on the device.
2. Thread the thicker strap of the lanyard through the inserted loop.
3. Pull the strap until the lanyard is securely fastened to the device.

4. Operating Instructions

4.1. Taking a Measurement

1. Install two AAA batteries into the device.
2. Open the clamp of the oximeter.
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 on the front panel.
6. Keep your hand still during the measurement. Do not shake your finger.
7. The measurement results (SpO2 and Pulse Rate) will appear on the display within a few seconds.



Figure 4: Proper finger placement for measurement.

4.2. Understanding the Display

The OLED display shows the following information:

- **SpO2 (%):** Blood Oxygen Saturation Level.
- **PRbpm:** Pulse Rate in beats per minute.
- **Plethysmograph:** A waveform indicating pulse strength.
- **Battery Indicator:** Shows remaining battery life.

4.3. Advanced Features

- **Auditory Alarm:** The device can be set to emit an auditory alarm if your SpO2 or Pulse Rate falls outside predefined limits. Refer to the device settings for adjustment.
- **Auditory Pulse Beep:** A beep sound accompanies each detected pulse, providing real-time feedback.
- **Adjustable Display Brightness:** The brightness of the OLED screen can be adjusted for optimal viewing in different lighting conditions.

5. Maintenance

5.1. Cleaning

- Clean the surface of the oximeter with a soft cloth dampened with medical alcohol (70% isopropyl alcohol) or a mild disinfectant.
- Do not immerse the device in water or any cleaning solution.
- Ensure the device is dry before reuse.

5.2. Storage

When not in use, store the oximeter in a cool, dry place, away from direct sunlight and extreme temperatures. Remove batteries if the device will not be used for an extended period.
The included soft Velcro carrying case is ideal for protecting your Zacurate pulse oximeter from damage and keeping it clean.



Figure 5: Soft Velcro carrying case for the Zacurate Pulse Oximeter.

6. Troubleshooting

- **No Display:** Check battery installation and polarity. Replace batteries if necessary.

- **Inaccurate Readings:** Ensure the finger is fully inserted and still. Avoid strong ambient light. Ensure fingernails are clean and free of polish.
- **"Finger Out" Message:** Reinsert finger correctly into the device.
- **Device Turns Off Automatically:** This is a power-saving feature. If it turns off unexpectedly during use, check battery level.

7. Specifications

Specification	Detail
Model Name	Zacurate 500C Elite
Power Requirements	2 x AAA batteries
Battery Life	Approximately 30 hours
Measuring Range (SpO2)	Typical human physiological range
Measuring Range (Pulse Rate)	Typical human physiological range
ASIN	B08K2NVCF6
Color	Black

8. Important Information

8.1. Legal Disclaimer

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. This device is for Sports & Aviation use only and is not a medical device.

9. Support

For further assistance or product information, please visit the official Zacurate Store:
Visit the Zacurate Store on Amazon

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