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Zacurate 500BL

Zacurate 500BL Fingertip Pulse Oximeter User Manual

Model: 500BL
Brand: Zacurate

PRODUCT OVERVIEW

The Zacurate 500BL Fingertip Pulse Oximeter is a compact and easy-to-use device designed for non-invasive spot-checking of blood oxygen saturation (SpO2) and pulse rate. It provides quick and accurate readings, making it ideal for sports enthusiasts, aviators, and individuals who need to monitor their oxygen levels and heart rate. The device features a bright LED display for clear visibility of results.



Image: The Zacurate 500BL Fingertip Pulse Oximeter, showcasing its compact design and digital display with readings.

IMPORTANT SAFETY INFORMATION

Indications: This pulse oximeter is sold for sports and aviation use only and is calibrated to work at sea level. *This is not a medical device.*

Directions: This device is not intended to diagnose or treat any medical condition or disease. Content on this site is for reference purposes and is not intended to substitute for advice given by a physician, pharmacist, or other licensed health-care professional. You should not use this information as self-diagnosis or for treating a health problem or disease. Contact your health-care provider immediately if you suspect that you have a medical problem. This device is for sports and aviation only.

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.

Ingredients: The device is constructed from ABS Plastic.

PACKAGE CONTENTS

Your Zacurate 500BL Fingertip Pulse Oximeter package includes:

- Zacurate 500BL Fingertip Pulse Oximeter
- 2x AAA Batteries
- Lanyard
- User Manual (this document)



Image: Contents of the Zacurate 500BL package, showing the oximeter, user manual, and AAA batteries.

SETUP

Installing Batteries

The Zacurate 500BL requires two AAA batteries for operation. These are included in your package.

1. Locate the battery cover on the back of the device.
2. Slide the battery cover off.
3. Insert the two AAA batteries, ensuring correct polarity (+/-) as indicated inside the compartment.
4. Replace the battery cover by sliding it back into place until it clicks securely.



Image: Diagram illustrating how to open the battery compartment and correctly insert the AAA batteries.

OPERATING INSTRUCTIONS

The Zacurate 500BL Fingertip Pulse Oximeter is designed for straightforward use. Follow these steps for accurate readings:

1. **Open the Oximeter:** Gently press the top and bottom of the device to open the finger chamber.



1. Open the oximeter and place your finger inside the chamber.



2. Ensure your finger is inserted completely into the chamber to allow the sensor to obtain accurate readings.



3. Press the power button and keep your hand still. Avoid any movement as it can result in inaccurate readings.



4. Wait for the device to stabilize and display the results.

Image: A hand demonstrating how to open the Zacurate 500BL Pulse Oximeter's finger chamber.

2. **Insert Finger:** Insert one of your fingers (preferably the index or middle finger) fully into the rubber opening of the oximeter. Ensure your fingernail is facing upwards towards the display. The SMART Spring System accommodates a wide range of finger sizes.



Image: A finger being inserted into the Zacurate 500BL Pulse Oximeter for measurement.

3. **Activate Device:** Press the power button located on the front of the device.



Image: Labeled diagram of the Zacurate 500BL Pulse Oximeter, indicating the power-on key and other components.

4. **Remain Still:** Keep your hand and finger still during the measurement. Movement can affect accuracy.
5. **Read Results:** Wait a few seconds for the device to stabilize and display your SpO2 (blood oxygen saturation) and pulse rate readings on the LED screen.



Image: A finger with the Zacurate 500BL Pulse Oximeter attached, displaying the SpO2 and pulse rate readings.

Understanding the Display

The LED display provides the following information:

- **%SpO2:** Your blood oxygen saturation level.
- **PR bpm:** Your pulse rate in beats per minute.
- **Pulse Bar Graph:** A visual representation of your pulse strength.
- **Battery Level Indicator:** Shows the remaining battery life.

Official Product Video

Your browser does not support the video tag.

Video: A user demonstrating the ease of use and functionality of the Zacurate 500BL Fingertip Pulse Oximeter, including how to place it on a finger and read the display. This video highlights its suitability for monitoring oxygen levels and pulse rate, and its ability to work on small fingers.

MAINTENANCE

To ensure the longevity and accuracy of your Zacurate 500BL Pulse Oximeter, follow these maintenance guidelines:

- **Cleaning:** Wipe the device with a soft cloth dampened with alcohol (70% isopropyl alcohol is recommended) before and after each use. Do not immerse the device in water or any cleaning solution.
- **Storage:** Store the oximeter in a cool, dry place, away from direct sunlight and extreme temperatures. If not in use for an extended period, remove the batteries to prevent leakage.
- **Handling:** Handle the device with care. Avoid dropping it or subjecting it to strong impacts, as this can damage internal components. The durable design is built to withstand minor impacts, but excessive force should be avoided.
- **Battery Replacement:** Replace batteries when the low battery indicator appears on the display to ensure continuous and accurate operation.

TROUBLESHOOTING

If you encounter issues with your Zacurate 500BL Pulse Oximeter, try the following common solutions:

- **No Reading/Inaccurate Reading:**
 - Ensure your finger is fully inserted into the chamber.
 - Keep your hand and finger still during measurement.
 - Check battery level and replace if necessary.
 - Avoid strong light sources directly on the sensor.
 - Ensure fingernails are clean and free of polish, especially dark colors, which can interfere with readings.
 - Cold fingers may affect readings; warm your hand before use.
- **Device Not Turning On:**
 - Check if batteries are inserted correctly with proper polarity.
 - Replace with new batteries.

- **Display Issues:**

- If the display is dim, replace batteries.
- If the display is blank, ensure the device is turned on and batteries are functional.

For more detailed troubleshooting, please refer to the official [Troubleshooting Guide \(PDF\)](#) or [User Guide \(PDF\)](#) available online.

SPECIFICATIONS

Feature	Detail
Model Number	500BL
Product Dimensions	2.1 x 1.1 x 1.3 inches
Weight	2.89 ounces
Power Source	2 AAA batteries (included)
Color	Light Navy Blue
Measurement Accuracy	+/-2%
Measuring Range (SpO2)	70% - 100% SpO2
Manufacturer	Zacurate
Country of Origin	China
First Available Date	January 13, 2017

WARRANTY AND SUPPORT

The Zacurate 500BL Fingertip Pulse Oximeter comes with a **12-month warranty** from the date of purchase.

For technical support, warranty claims, or any questions regarding your product, please contact Zacurate's USA-based technical phone support team. They are available to assist you with any inquiries.

Contact Information:

Phone: 832-939-8290

Email: cs@beyondmedshop.com

Website: zacurate.com



Image: Contact details for Zacurate customer support, including phone number, email address, and website.