

## Alcedo AE 174

# Alcedo Pulse Oximeter Fingertip User Manual

Model: AE 174

## 1. INTRODUCTION

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The Alcedo Fingertip Pulse Oximeter is a non-invasive device designed for spot-checking the oxygen saturation of arterial hemoglobin (SpO<sub>2</sub>) and pulse rate. It is suitable for use at home, in medical facilities, and during sports activities. This manual provides detailed instructions for the safe and effective use of your device.

**Important Note:** This device is intended for sports and aviation use. It is not intended for medical diagnosis or treatment. Consult with a medical professional for any health concerns.



Image: The Alcedo Pulse Oximeter, a compact black device with an OLED display showing SpO2 and pulse rate readings.

## 2. PACKAGE CONTENTS

Upon opening your Alcedo Pulse Oximeter package, please verify that all the following items are included:

- Alcedo Pulse Oximeter (Model: AE 174)
- Carrying Case
- Lanyard
- AAA Batteries (2 included)
- User Manual (this document)
- Quick Start Guide

Easy To Read



Clear & Bright Display



Adjustable Brightness



Image: An overhead view of the complete Alcedo Pulse Oximeter package contents, including the oximeter, carrying case, lanyard, batteries, and user manuals.

### 3. PRODUCT FEATURES

The Alcedo Pulse Oximeter is equipped with several features designed for user convenience and accurate measurement:

- **Accurate and Reliable:** Provides non-invasive, accurate, and reliable measurement of oxygen saturation level (SpO2) and pulse (heart rate) in seconds.
- **Easy-to-Use:** Features one-button operation for straightforward readings anytime, anywhere.
- **Dual Color OLED Display:** Large, bright display with adjustable brightness for easy reading.
- **Multiple Data Display:** Shows oxygen levels, pulse rate, pulse rate bar graph, pulse rate waveform, and perfusion index (PI).
- **Compact and Lightweight:** Portable design for on-the-go use.
- **Comfortable Silicon Padding:** Ensures a comfortable and slip-resistant fit for various finger sizes.
- **Out of Range Alarm:** Allows setting upper and lower ranges with alert warnings if readings exceed the predetermined range.
- **Automatic Off:** Device automatically powers off after a period of inactivity to conserve battery life.



Image: A diagram highlighting the key features of the oximeter, including its accuracy, ease of use, clear display, alarm function, automatic off, comfortable padding, adjustable brightness, and non-invasive lightweight design.

# Versatile

It is useful in a variety of health, sports and daily situations



Image: A close-up of the oximeter's bright OLED display, showing clear readings for SpO2, pulse rate, and perfusion index, emphasizing its readability.

## 4. SETUP

### 4.1. Battery Installation

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

### 4.2. Attaching the Lanyard

To attach the lanyard, thread the thin loop end of the lanyard through the lanyard loop hole on the side of the oximeter. Then, thread the thicker part of the lanyard through the thin loop and pull to secure it.

## 5. OPERATION

### 5.1. Taking a Measurement

1. Ensure the device has batteries installed.

2. Open the clamp of the oximeter.
3. Insert one of your fingers (preferably the index or middle finger) into the rubber opening of the oximeter, ensuring your fingertip is placed correctly on the sensor.
4. Release the clamp.
5. Press the power button on the front of the device.
6. Keep your hand still and avoid movement during the measurement. The readings will appear on the display within a few seconds.

## Easy To Use

With a simple one-button design, this oximeter is easy for anyone to use.



Image: A hand holding the Alcedo Pulse Oximeter, illustrating the simple one-button operation and comfortable silicon padding.

# All In One Package



Image: A visual step-by-step guide showing how to insert a finger, press the power button, and view results on the Alcedo Pulse Oximeter.

## 5.2. Interpreting Readings

- **SpO2 (%)**: Displays the blood oxygen saturation level.
- **PR (bpm)**: Displays the pulse rate in beats per minute.
- **PI (%)**: Perfusion Index, indicates the strength of the pulse signal.
- **Bar Graph**: Visual representation of pulse strength.
- **Waveform**: Plethysmograph waveform, indicating the blood flow.

## 5.3. Setting Alarms (if applicable)

The device allows you to set upper and lower limits for SpO2 and pulse rate. If your readings fall outside these predetermined ranges, the device will provide an alert. Refer to the Quick Start Guide for specific instructions on how to adjust these settings.

## 6. MAINTENANCE AND CARE

### 6.1. Cleaning the Device

- Before cleaning, ensure the device is turned off and no finger is inserted.

- Wipe the surface of the oximeter with a soft cloth dampened with a mild disinfectant (e.g., 70% isopropyl alcohol).
- Do not immerse the device in water or any cleaning solution.
- Allow the device to air dry completely before storage or next use.

## 6.2. Battery Replacement

When the low battery indicator appears on the display, replace the batteries promptly. Follow the battery installation steps in Section 4.1.

## 6.3. Storage

Store the oximeter in a cool, dry place, away from direct sunlight, extreme temperatures, and humidity. If the device will not be used for an extended period, remove the batteries to prevent leakage and damage.

## 7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No display after pressing power button	Batteries are dead or incorrectly installed.	Replace batteries or re-install them correctly, observing polarity.
Display shows "Finger Out" or no reading	Finger not inserted properly or too much movement.	Re-insert finger, ensuring it is fully placed on the sensor. Remain still during measurement.
Inaccurate readings	Excessive movement, cold fingers, nail polish, or strong ambient light.	Ensure stillness, warm fingers, remove nail polish, and avoid direct bright light.
Device turns off automatically	Normal operation (auto-off feature) or low battery.	This is normal if no signal is detected for a period. If it happens during measurement, check batteries.

## 8. SPECIFICATIONS

- **Model Name:** AE 174
- **Product Dimensions:** 3.43 x 2.48 x 1.97 inches
- **Weight:** 3.21 ounces
- **Measuring Range (SpO2):** 70-100%
- **Measuring Range (Pulse Rate):** 30-250 bpm
- **Power Source:** 2 x AAA batteries (included)
- **Display Type:** Dual Color OLED
- **Manufacturer:** Alcedo
- **Color:** Black

## 9. WARRANTY AND SUPPORT

Alcedo products are manufactured to high-quality standards. For information regarding warranty coverage,

technical support, or service inquiries, please refer to the contact information provided in your product packaging or visit the official Alcedo website. Please retain your purchase receipt as proof of purchase for warranty claims.

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