

Berrcom YM302

Berrcom Fingertip Pulse Oximeter (Model YM302) User Manual

For accurate and reliable blood oxygen saturation (SpO₂) and pulse rate (PR) monitoring.

1. INTRODUCTION

The Berrcom Fingertip Pulse Oximeter (Model YM302) is a portable, non-invasive device designed for spot-checking blood oxygen saturation (SpO₂) and pulse rate (PR) in adults and pediatric users. It is intended for use in sports and aviation for wellness tracking, and not for medical diagnosis or treatment. This manual provides essential information for the safe and effective use of the device.

2. SAFETY INFORMATION

- This device is intended for sports and aviation use only. It is not a medical device and should not be used for medical diagnosis or treatment.
- Consult a medical professional for any health concerns or abnormal readings.
- Keep the device out of reach of small children to prevent choking hazards from small parts.
- Do not use the oximeter in an MRI or CT environment.
- Avoid exposing the device to direct sunlight, high temperatures, or moisture.
- Do not attempt to repair or modify the device yourself. Contact customer support if issues arise.

3. PRODUCT OVERVIEW

3.1 Components

The Berrcom Fingertip Pulse Oximeter package includes the following items:

- 1 x Fingertip Pulse Oximeter
- 1 x Lanyard
- 1 x User Manual
- 2 x AAA Batteries



Image: What's in the box - Oximeter, Lanyard, Operating Instructions, AAA batteries.

3.2 Device Features

The oximeter features a compact design with a bright LED display for clear readings. It includes a silicone shading design to prevent external light interference and ensure accurate measurements.

PRODUCT INFORMATION



Accurate
Measuring SPO2
& PR PI



Pulse Rate



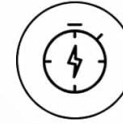
One Button
Operation



Low Battery
Indicator



Auto
Switch-off



5-8S Fast
Reading

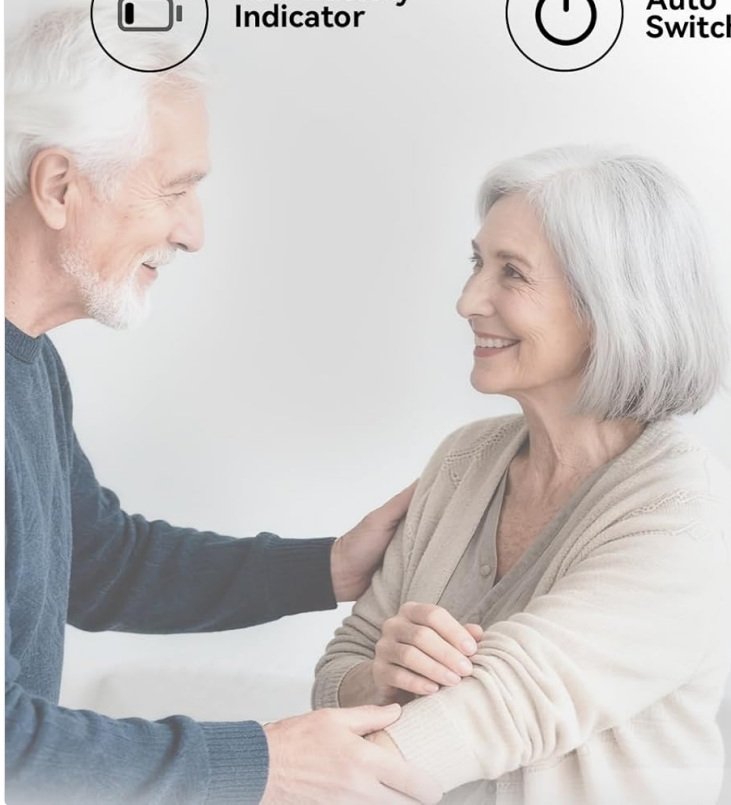


Image: Silicone Shading Design - Illustrates the internal design that prevents light interference for accurate readings.

TFT DISPLAY

Screen Highlighting



Large 1.3"
TFT OLED Screen



Brightness
Adjustable



Image: TFT Display Screen Highlighting - Shows the clear display with SpO2, PR, and PI readings.

4. SETUP

4.1 Battery Installation

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

4.2 Attaching the Lanyard

Thread the thin loop of the lanyard through the 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. **Open Oximeter:** Press the top and bottom of the oximeter to open the finger chamber.

2. **Place Finger:** Insert one of your fingers (preferably the index finger) into the rubber opening of the oximeter, ensuring your nail is facing upwards towards the display.
3. **Press Power Button:** Press the power button once to turn on the oximeter.
4. **Wait for Results:** Keep your hand still. The device will automatically begin measuring and display your SpO₂, PR, PI, and pulse waveform within 5-8 seconds.



Image: How to Use the Fingertip Pulse Oximeter - Step-by-step visual instructions.

COMPACT AND PORTABLE

Package comes with Battery
Lanyard, Instruction Manual

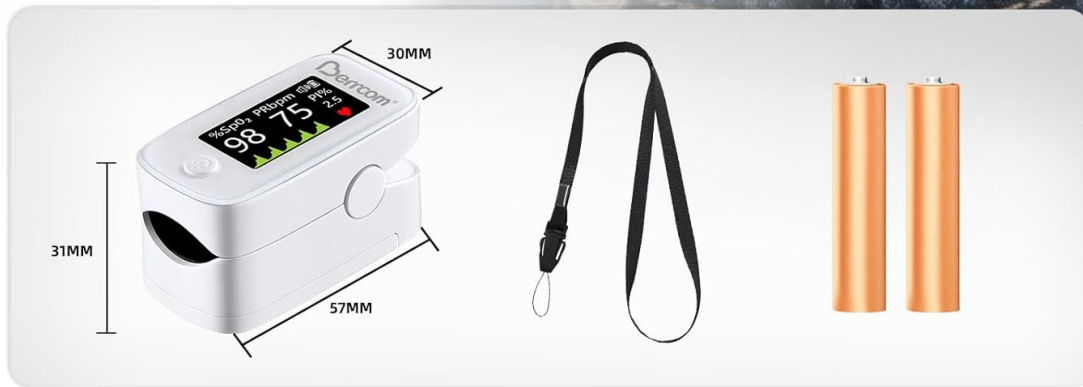


Image: Product Detail - Labeled display showing Perfusion Index, Battery Level, Pulse Rate, Pulse Wave, SpO2, Heart Beat, and Power Button.

5.2 Interpreting Readings

- **SpO2:** Blood Oxygen Saturation level.
- **PR:** Pulse Rate, measured in beats per minute (BPM).
- **PI:** Perfusion Index, indicating the strength of the pulse signal.
- **Pulse Waveform:** A graphical representation of your pulse.
- **Battery Level:** Indicates remaining battery power.

5.3 Smart Features

- **Auto-Off:** The device automatically powers off 8 seconds after your finger is removed to conserve battery life.
- **Intelligent Alerts:** Audible and visual alarms will activate if your SpO2 falls below 94% or your pulse rate goes outside the 50-130 BPM range.
- **Memory Function:** The oximeter stores up to 20 sets of readings to help track trends over time.

6. MAINTENANCE

6.1 Cleaning

- Clean the surface of the oximeter with a soft cloth dampened with 70% isopropyl alcohol.
- Do not immerse the device in liquid.
- Ensure the device is completely dry before reuse.

6.2 Storage

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

6.3 Battery Replacement

When the battery indicator on the display shows low power, replace the AAA batteries as described in the 'Battery Installation' section.

7. TROUBLESHOOTING

- **No Display/Device Not Turning On:** Check battery polarity and ensure batteries are correctly installed. Replace batteries if necessary.
- **'Finger Out' Message:** Ensure your finger is fully inserted into the finger chamber and is resting flat on the sensor. Keep your hand still during measurement.
- **Inaccurate Readings:** Ensure your finger is clean and free of nail polish or artificial nails. Avoid excessive movement during measurement. Cold fingers can also affect accuracy; warm your hand before use.
- **Display Orientation:** The display orientation may change with each press of the power button while the device is on. This is a feature, not a malfunction.

8. SPECIFICATIONS

Parameter	Specification
Brand	Berrcom
Model Number	YM302
Color	White
Measurement Accuracy	+/- 2%
Measuring Range (SpO2)	94% and above
Measuring Range (Pulse Rate)	50bpm and above, 130bpm and below
Number of Batteries	2 AAA batteries (included)
Display Type	LED
Auto-Off	8 seconds after finger removal
Memory	20 sets of readings

9. WARRANTY AND SUPPORT

Berrcom products are manufactured to high-quality standards. For warranty information or technical support, please refer to the warranty card included with your product or contact Berrcom customer service directly. Keep your purchase receipt as proof of purchase.