

## Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

manuals.plus /

- › [Olufey](#) /
- › [Olufey Laser Measure OL50 User Manual](#)

## Olufey OL50

# Olufey Laser Measure OL50 User Manual

Model: OL50 | Brand: Olufey

## 1. INTRODUCTION

The Olufey OL50 Laser Distance Meter is a portable, high-precision digital measuring tool designed for quick and accurate distance, area, and volume measurements. Equipped with advanced laser technology and practical features like bubble levels and an LCD backlit display, it is an indispensable device for professionals and DIY enthusiasts alike. Its robust IP54 rating ensures durability in various working conditions.



Image 1.1: The Olufey OL50 Laser Measure, showing the device itself along with included accessories such as the carry bag, wrist strap, and AAA batteries.

## 2. PACKAGE CONTENTS

Please check the package carefully to ensure all items are present:

- 1 x Olufey OL50 Laser Distance Measure
- 2 x 1.5V AAA Batteries
- 1 x Carry Bag
- 1 x Strap
- 1 x User Manual (this document)



Image 2.1: Visual representation of the items included in the Olufey OL50 Laser Measure package, including the device, batteries, carry bag, strap, and user manual.

## 3. SETUP

### 3.1 Battery Installation

The Olufey OL50 requires two 1.5V AAA batteries. Locate the battery compartment on the back of the device, open the cover, insert the batteries according to the polarity indicators (+/-), and close the cover securely.

### 3.2 Initial Power On

Press the **MEAS/ON** button to power on the device. The LCD screen will illuminate. Ensure the device is placed on a stable, level surface for accurate initial setup. The integrated bubble levels assist in achieving precise horizontal and vertical alignment.



Image 3.1: A close-up view of the two integrated bubble levels on the Olufey OL50 Laser Measure, which aid in ensuring accurate horizontal and vertical alignment during measurements.

## 4. OPERATING INSTRUCTIONS

## 4.1 Key Functions

Familiarize yourself with the buttons and their primary functions:



Image 4.1: A detailed diagram illustrating the key buttons on the Olufey OL50 Laser Measure and their respective functions, including power, measurement, data storage, and unit/benchmark switching.

- **MEAS/ON Button:** Powers the device on/off and initiates measurements.
- **Function/Data Storage Button:** Short press to cycle through measurement modes (distance, area, volume, Pythagorean). Long press to enter data storage/memory function.
- **+/- Button:** Used for addition and subtraction of measurements, and for navigating forward/backward in menus.
- **Benchmark/Unit Switch Button:** Short press to switch the measurement benchmark (front/rear of

device). Long press to switch measurement units (meters, inches, feet).

## 4.2 Measurement Modes

The OL50 supports various measurement types:



Image 4.2: Visual examples demonstrating the different measurement capabilities of the device, including single distance, continuous tracking, area calculation, volume calculation, and indirect measurement using the Pythagorean theorem.

- **Single Measurement:** Press the MEAS/ON button once to activate the laser, then press again to take a single distance measurement.
- **Continuous Measurement:** In single measurement mode, press and hold the MEAS/ON button to enter continuous measurement (tracking) mode. The device will continuously update the distance as you move it.

- **Area Measurement:** Select area mode. Take two consecutive measurements (length and width). The device will automatically calculate and display the area.
- **Volume Measurement:** Select volume mode. Take three consecutive measurements (length, width, and height). The device will automatically calculate and display the volume.
- **Pythagorean Method:** Select Pythagorean mode. Follow the on-screen prompts to take the required measurements (e.g., hypotenuse and one leg) to indirectly calculate a distance.

### 4.3 Unit Conversion

To switch between measurement units (meters, inches, feet), long press the **Benchmark/Unit Switch** button. The current unit will be displayed on the LCD screen.



Image 4.3: An illustration highlighting the ability of the Olufey OL50 to convert between different units of measurement, specifically Meters (M), Inches (IN), and Feet (FT).

### 4.4 Addition and Subtraction

The device allows you to add or subtract measurements. After taking a measurement, press the **+/-** button, then take another measurement. The device will perform the selected operation and display the result.



Image 4.4: Examples displayed on the device's screen showing how measurements can be added together or subtracted from each other, providing quick calculations.

### 4.5 Data Storage

The OL50 can store up to 99 sets of measurement data. Long press the **Function/Data Storage** button to access the memory. You can scroll through stored measurements using the **+/-** buttons.

# 99 Sets of Data Storage



Image 4.5: A visual representation of the device's capacity to store up to 99 sets of measurement data, allowing users to review past readings.

## 5. MAINTENANCE

### 5.1 Cleaning

To clean the device, use a soft, damp cloth. Do not use abrasive cleaners or solvents. Pay special attention to keeping the laser lens clean for accurate measurements.

## 5.2 Storage

When not in use for extended periods, remove the batteries to prevent leakage. Store the device in its carry bag in a cool, dry place, away from direct sunlight and extreme temperatures.

## 5.3 IP54 Protection

The Olufey OL50 is rated IP54, meaning it is protected against dust ingress and splashing water from any direction. While it offers good protection, avoid submerging the device in water or exposing it to heavy rain.



Image 5.1: The Olufey OL50 Laser Measure shown in environments with water splashes and dust, illustrating its IP54 rating for water and dust resistance.

## 6. TROUBLESHOOTING

- **Device does not power on:** Check if batteries are inserted correctly and have sufficient charge. Replace batteries if necessary.
- **Inaccurate measurements:** Ensure the laser lens is clean. Verify the measurement benchmark setting (front or rear of device). Ensure the target surface is reflective enough and the device is stable.
- **"Error" message on display:** This may indicate an out-of-range measurement, an obstruction, or an internal issue. Try restarting the device. If the problem persists, refer to the specifications for the measuring range.
- **Display is dim or flickering:** Batteries may be low. Replace them.

## 7. SPECIFICATIONS

Feature	Specification
Model Name	OL50
Laser Class	Class 2
Laser Wavelength	635nm
Power Output	<1mW
Accuracy	±0.08in (2mm)
Measuring Range	Up to 165ft (50m)
Measurement Time	0.5s
International Protection Rating	IP54 (Water Resistant, Dustproof)
Batteries	2 x 1.5V AAA Alkaline Batteries
Item Weight	120 Grams
Item Dimensions (LxWxH)	5.51 x 3.07 x 1.57 inches
Data Storage	99 Sets

## 8. WARRANTY AND SUPPORT

The Olufey OL50 Laser Measure comes with a **one-year after-sale service warranty** from the date of

purchase. This warranty covers manufacturing defects and ensures reliable operation under normal use. For any questions, technical assistance, or warranty claims, please contact Olufey customer service. Refer to the product packaging or the official Olufey website for the most current contact information.