

REVASRI R50

REVASRI Laser Distance Meter R50 User Manual

Comprehensive instructions for operating and maintaining your REVASRI R50 Laser Distance Meter, designed for accurate and efficient measurements in various indoor applications.

1. INTRODUCTION

The REVASRI R50 Laser Distance Meter is a high-accuracy measurement tool ideal for home renovation, interior design, and other indoor applications. It offers a measurement range of up to 165 feet with an accuracy of $\pm 1/16$ inch, providing a modern and efficient alternative to traditional tape measures. This compact and portable device is designed for ease of use, featuring multiple measurement modes and a clear HD display for enhanced visibility.





Figure 1: Front view of the REVASRI R50 Laser Distance Meter, showing the display and control buttons.

2. PRODUCT FEATURES

- **High Accuracy:** Provides 165ft range and $\pm 1/16$ inch measurement accuracy.
- **Multiple Measurement Modes:** Includes distance measurement (with +/- function), area & volume measurement, continuous measurement, and Pythagorean measurement.
- **Unit Conversion:** Easily switch between Meters, feet, inches, and feet+inches.
- **Low Power Consumption:** Powered by 2 AAA batteries, offering approximately 8000 measurements per new set of batteries.
- **Easy to Read Display:** Features a white text contrasted by a dark background for enhanced visibility in various lighting conditions.
- **Compact and Reliable:** Lightweight (80g/2.9oz) and portable (108x52.5x25mm/4.3x2.1x1 inches), designed for durability in tough working conditions.



Figure 2: The REVASRI R50 in hand, highlighting its compact design and key features like benchmark switch, data storage, portability, HD screen, and bubble level.

3. SETUP

3.1 Battery Installation

The REVASRI R50 Laser Distance Meter requires two AAA batteries (included). To install the batteries:

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

POWERED BY 2 AAA BATTERIES EASY TO REPLACE BATTERY



Figure 3: Rear view of the device showing the battery compartment with two AAA batteries inserted.

3.2 Initial Power On

After installing the batteries, press the **MEAS** button (star icon) to power on the device. The display will light up, indicating it is ready for use.

Your browser does not support the video tag.

Video 1: Unboxing and initial setup of the REVASRI R50 Laser Distance Meter, including battery installation and first power-on.

4. OPERATING INSTRUCTIONS

4.1 Basic Distance Measurement

To perform a single distance measurement:

1. Ensure the device is powered on.
2. Point the laser at the target surface.
3. Press the **MEAS** button. The laser will activate, and the measurement will appear on the display almost instantly.



Figure 4: The laser distance meter in operation, showing the red laser beam and a measurement on the screen.

4.2 Unit Switching

To change the measurement unit (Meters, feet, inches, feet+inches), long press the **Front/Back Benchmark Switch** button (bottom left button with two arrows). The unit will cycle through the available options.

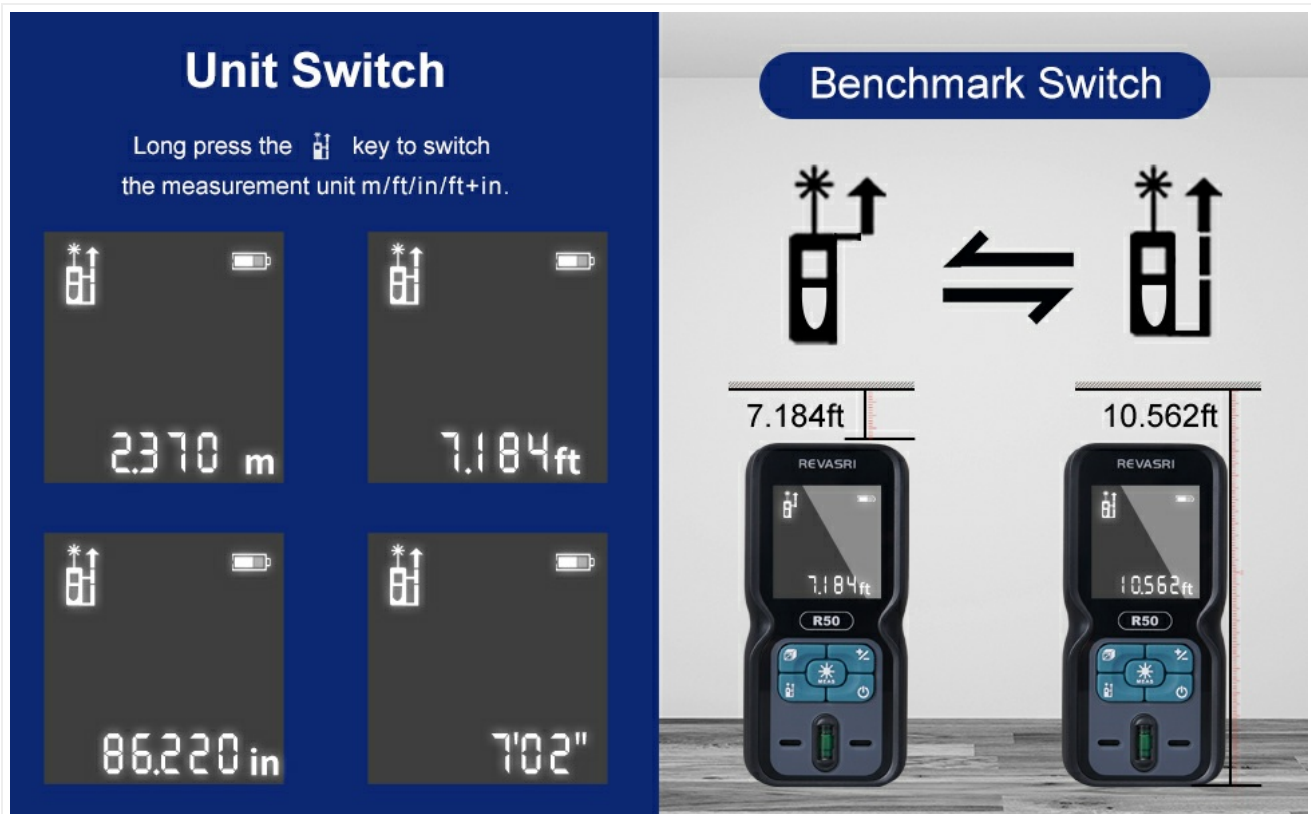


Figure 5: The device display illustrating various measurement units (meters, feet, inches, feet+inches) and the benchmark switch function.

4.3 Benchmark Setting

The device can measure from its front or rear edge. The default setting is usually from the rear. To switch the benchmark, short press the **Front/Back Benchmark Switch** button. An icon on the display will indicate the current benchmark (top or bottom of the device).

5. MEASUREMENT MODES

The REVASRI R50 offers several measurement modes for different applications. Press the **Function Menu** button (top left button with square icon) to cycle through the modes.

- **Single Measurement:** Measures the direct distance between two points.
- **Area Measurement:** Calculates the area of a surface by taking two measurements (length and width).
- **Volume Measurement:** Calculates the volume of a space by taking three measurements (length, width, and height).
- **Continuous Measurement (Min/Max):** Continuously measures distance, displaying the minimum and maximum values recorded during the sweep. Useful for finding shortest/longest distances or diagonals.
- **Pythagorean Measurement (Type I, II, III):** Calculates indirect distances using the Pythagorean theorem.
 - *Type I:* Measures the hypotenuse from two legs.
 - *Type II:* Measures a leg from the hypotenuse and another leg.
 - *Type III:* Measures a leg from two hypotenuses and one leg.
- **Addition and Subtraction:** Allows adding or subtracting measurements.

Measurement Mode



Figure 6: A visual guide to the different measurement modes available on the REVASRI R50, including single, area, volume, Pythagorean (I, II, III), continuous, and addition/subtraction.

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Video 2: Demonstration of switching between various measurement modes and performing basic distance measurements with the REVASRI R50.

6. MAINTENANCE

- **Cleaning:** Use a soft, damp cloth to clean the device. Do not use abrasive cleaners or solvents. Ensure the laser lens is clean for accurate measurements.
- **Battery Replacement:** Replace batteries when the low battery indicator appears on the display. Always use new AAA alkaline batteries.
- **Storage:** Store the device in a cool, dry place away from direct sunlight and extreme temperatures. If storing for extended periods, remove the batteries to prevent leakage.
- **Protection:** The device has an IP54 rating, meaning it is protected against dust and splashing water. However, it is not waterproof and should not be submerged.

7. TROUBLESHOOTING

- **Device not powering on:**
 - Check if batteries are installed correctly with proper polarity.
 - Replace batteries with new ones.
- **Inaccurate readings:**
 - Ensure the laser lens is clean and free from obstructions.
 - Verify the correct benchmark setting (front or rear of the device).
 - Ensure the target surface is flat and reflective enough for the laser.
 - Avoid measuring through transparent materials like glass.
 - The device is intended for indoor use; outdoor conditions (bright sunlight) can affect accuracy.
- **Display issues:**
 - Check battery level.
 - If the display is frozen or unresponsive, try removing and reinserting the batteries to reset the device.

8. SPECIFICATIONS





Feature	Specification
Brand	REVASRI
Model Name	R50
Measuring Range	0.05-50m / 0.2-165 feet
Accuracy	±1/16 inch
Power Source	2 x AAA Alkaline Batteries (Included)
Laser Class	Class 2, Laser output <1mW
Item Weight	80 Grams (2.9 oz)
Product Dimensions	4.25"L x 2.1"W x 1"H (108 x 52.5 x 25 mm)
Material	Plastic
Color	Black
International Protection Rating	IP54

9. WARRANTY AND SUPPORT

The REVASRI R50 Laser Distance Meter comes with a **1-year manufacturer's warranty**. For any product inquiries, technical support, or warranty claims, please contact REVASRI customer service through the platform where you purchased the product or visit the official REVASRI store page.

REVASRI Store: <https://www.amazon.com/stores/REVASRI/page/D0736C9A-26AD-4F84-BA2E-93B134B88E3D>

Related Documents - R50

	<p>REVASRI Laser Rangefinder: Multifunctional and Golf User Manual</p> <p>Comprehensive user manual for the REVASRI Laser Rangefinder, detailing its features, modes of operation, safety instructions, and technical specifications for hunting and golf applications. Learn how to calibrate, switch units, use various measurement modes, and maintain your device.</p>
	<p>REVASRI H3D Golf Rangefinder User Manual and Specifications</p> <p>Detailed user guide for the REVASRI H3D Golf Rangefinder, covering operation modes, slope measurement, technical specifications, and warranty information. Learn how to use your golf rangefinder effectively.</p>
	<p>Laser Rangefinder User Manual - Features, Modes, and Operation</p> <p>Comprehensive user manual for the Laser Rangefinder, detailing its introduction, working principle, product parameters, safety attentions, and step-by-step operation for all measurement modes including Ranging, All-in-one, Scanning, Height Measurement, Speed Measurement, and Golf Distance Compensation.</p>
	<p>KEYENCE FD-R Series Clamp-on Flow Meter Instruction Manual</p> <p>Comprehensive instruction manual for the KEYENCE FD-R Series clamp-on flow meters, detailing installation, wiring, settings, troubleshooting, specifications, and maintenance for models FD-R50, FD-R80, FD-R125, and FD-R200.</p>