RockSeed S2-50

RockSeed S2-50 Digital Laser Distance Meter User Manual

Model: S2-50

1. Introduction

Thank you for choosing the RockSeed S2-50 Digital Laser Distance Meter. This device is designed for precise and efficient measurement of distances, areas, and volumes, making it an indispensable tool for home, construction, and industrial applications. Its compact design, high accuracy, and multiple measurement modes ensure reliable performance in various environments.





Figure 1: RockSeed S2-50 Digital Laser Distance Meter, front view showing the display and control buttons.

2. Safety Information

Please read all safety instructions carefully before using the device. Failure to follow these instructions may result in laser radiation exposure, electric shock, fire, or serious injury.

- **Laser Warning:** This device emits a Class II laser (635nm, <1mW).**Do not point the laser beam directly into eyes.** Direct eye exposure to the laser beam may cause eye injury.
- Do not disassemble or modify the device. Repairs should only be performed by qualified personnel.
- Keep the device out of reach of children.
- Avoid using the device in strong sunlight, as this may affect measurement accuracy.
- Ensure the battery compartment is securely closed to maintain IP54 dust and water resistance.

3. Package Contents

The standard package includes the following items:

- 1x RockSeed S2-50 Laser Distance Meter
- 1x Hand Strap
- 1x User Manual
- 2x AAA Batteries



Figure 2: Contents of the RockSeed S2-50 package, including the device, hand strap, manual, and batteries.

4. Product Overview

4.1. Device Components



Figure 3: Overview of the RockSeed S2-50, highlighting button functions and the battery compartment.

1. **Display Screen:** Shows measurement data, unit, battery status, and measurement mode.
2. **MEAS Button:** Initiates measurement.
3. **Function Button:** Switches between Area/Volume/Pythagorean measurement modes.
4. **Reference Point & Unit Switch Button:** Changes measurement reference point (front/rear) and measurement units (m/ft/in/ft+in).
5. **Plus (+) Button:** Adds measurements.
6. **Minus (-) & Mute ON/OFF Button:** Subtracts measurements and toggles sound.
7. **CLEAR/ON/OFF Button:** Clears current measurement or turns the device on/off.
8. **Bubble Levels:** Two integrated bubble levels for horizontal and vertical alignment.

5. Setup

5.1. Installing Batteries

The RockSeed S2-50 requires 2 AAA batteries for operation.

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

5.2. Powering On/Off

- To turn on the device, press the **CLEAR/ON/OFF** button. The laser will activate automatically.
- To turn off the device, press and hold the **CLEAR/ON/OFF** button for 3 seconds. The device will also automatically shut off after 180 seconds of inactivity to save battery.

6. Operating Instructions

6.1. Changing Measurement Units

Press the **UNIT** button repeatedly to cycle through the available measurement units: meters (m), feet (ft), inches (in), and feet+inches (ft+in).



Figure 4: The device display illustrating various measurement unit options.

6.2. Adjusting Reference Point

The device can measure from its front edge or its rear edge. Press the **Reference Point** icon on the **UNIT** button to switch between these two reference points. The current reference point is indicated on the display.



Figure 5: The device features two bubble levels for precise alignment and allows switching between front and rear measurement reference points.

6.3. Basic Measurement Modes

The S2-50 supports various measurement functions:

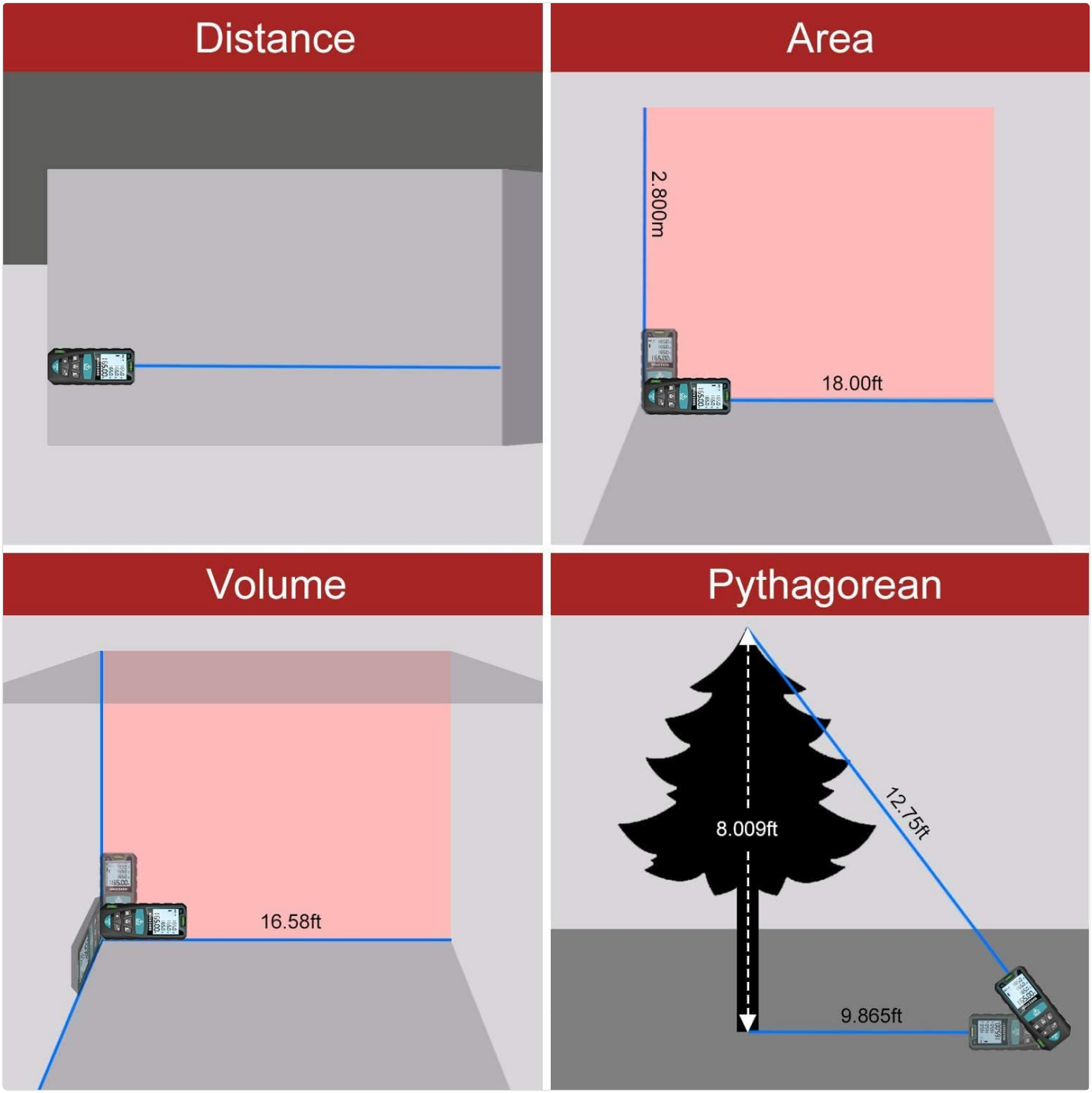

Figure 6: Visual representation of the different measurement modes: Distance, Area, Volume, and Pythagorean.

6.3.1. Single Distance Measurement

1. Turn on the device.
2. Point the laser at the target.
3. Press the **MEAS** button. The measured distance will appear on the display.

6.3.2. Area Measurement

1. Press the **Function** button once. The area icon will appear on the display.
2. Take the first measurement (e.g., length) by pressing **MEAS**.
3. Take the second measurement (e.g., width) by pressing **MEAS** again.
4. The device will automatically calculate and display the area.

6.3.3. Volume Measurement

1. Press the **Function** button twice. The volume icon will appear on the display.

2. Take the first measurement (length) by pressing **MEAS**.
3. Take the second measurement (width) by pressing **MEAS**.
4. Take the third measurement (height) by pressing **MEAS**.
5. The device will automatically calculate and display the volume.

6.3.4. Pythagorean Measurement (Indirect Measurement)

This mode is used to calculate heights or distances indirectly when direct measurement is not possible.

1. Press the **Function** button three or four times (depending on the specific Pythagorean mode needed, e.g., single or double Pythagorean). The corresponding icon will appear.
2. Follow the on-screen prompts to take the required measurements (e.g., hypotenuse, base).
3. The device will calculate and display the unknown side.

6.4. Continuous Measurement (Tracking)

In single distance measurement mode, press and hold the **MEAS** button to activate continuous measurement. The display will show real-time distance updates, along with minimum and maximum values. Press **MEAS** again to stop.

6.5. Addition and Subtraction

After a measurement, press the **+** button to add the next measurement to the current value, or the **-** button to subtract it. The result will be displayed.

6.6. Data Storage and Recall

The device can store up to 20 groups of measurement data.

- Measurements are automatically saved.
- To recall stored data, press the **Function** button until the data recall icon appears. Use the **+** and **-** buttons to navigate through the stored values.



Figure 7: The device's display showing its capability to record and recall up to 20 groups of data.

6.7. Mute Mode

To toggle the beep sound on or off, press and hold the**Minus (-)** button.

7. Maintenance

- Clean the device with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- Keep the laser lens clean to ensure accurate measurements. Use a soft cloth or cotton swab.
- Remove batteries if the device will not be used for an extended period to prevent leakage.
- Store the device in a dry, cool place, away from direct sunlight and extreme temperatures.
- The device has an IP54 rating, meaning it is protected against dust and splashing water. However, do not immerse it in water.



Figure 8: The device demonstrating its IP54 protection against water splashes and dust.

8. Troubleshooting

Problem	Possible Cause	Solution
Device does not turn on.	Low or dead batteries; incorrect battery insertion.	Replace batteries; ensure correct polarity.
Measurement error (e.g., "Error").	Laser beam obstructed; target too far/close; strong light interference.	Ensure clear path; measure within range; use in suitable lighting conditions.
Inaccurate measurements.	Dirty laser lens; unstable measurement surface; strong vibrations.	Clean lens; ensure stable position; minimize movement during measurement.

Problem	Possible Cause	Solution
Display is dim or flickering.	Low battery power.	Replace batteries.

9. Specifications

Feature	Detail
Model	S2-50
Measurement Range	0.2m to 50m (165ft)
Measurement Accuracy	± 2 mm
Measurement Units	m / ft / in / ft+in
Laser Class	Class II, 635nm, <1mW
Automatic Shut-off	180 seconds (laser auto-off after 30s)
Data Storage	Up to 20 groups
Battery Type	2 x AAA Alkaline Batteries
Battery Life	Approx. 5000 measurements
IP Rating	IP54 (Dustproof and Splashproof)
Dimensions	11 x 5 x 3 cm
Weight	168 grams
Material	Metal (body), Rubber (grip)
Features	Mute switch, 2 bubble levels, Auto calculation

10. Warranty and Support

RockSeed provides a 12-month warranty for this product from the date of purchase. Additionally, a 30-day return policy is available. For technical support, warranty claims, or any inquiries, please contact RockSeed customer service through your purchase platform or the official RockSeed website.
Please retain your proof of purchase for warranty purposes.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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The screen of the RockSeed S2-50 Digital Laser Distance Meter is totally blank, even though it is turning on.

If the screen on your RockSeed S2-50 Digital Laser Distance Meter is totally blank even though it is turning on, please check the following:Low or dead batteries: The most common cause for a blank...

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