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› SNDWAY SW-S50 Laser Distance Meter User Manual

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SNDWAY SW-S50 Laser Distance Meter User Manual

Model: SW-S50

1. INTRODUCTION

The SNDWAY SW-S50 is a versatile laser distance meter designed for accurate and efficient measurement of distances, areas, and volumes. It features a rechargeable battery, an electronic level bubble, and multiple measurement modes to assist with various tasks. This manual provides detailed instructions for the proper use and maintenance of your device.



Figure 1: Front view of the SNDWAY SW-S50 Laser Distance Meter, showing the display and control buttons.

2. INITIAL SETUP

2.1 Charging the Device

The SW-S50 is equipped with a built-in 3.7V 1000mA Li-battery. Before first use, ensure the device is fully charged.

1. Locate the USB charging port on the side of the device.
2. Connect the provided USB cable to the device and then to a compatible USB power adapter or a computer's USB port.
3. The battery indicator on the display will show the charging status. A full charge typically takes a few hours.
4. Disconnect the cable once charging is complete.

Laser rangefinder

Home life is a good helper

Measure House/ Decoration/ Design/ Exhibition Arrangement
Precision reliable and relieved to use



Figure 2: The USB charging port located on the side of the device, used for recharging the internal battery.

2.2 Powering On/Off

- **To Power On:** Press the **'READ'** button. The display will illuminate.
- **To Power Off:** Press and hold the **'OFF/CLEAR'** button for approximately 2 seconds. The device also features an auto-power-off function, which will turn off the device after 150 seconds of inactivity (adjustable).

3. OPERATING INSTRUCTIONS

3.1 Basic Measurement Modes

3.1.1 Single Distance Measurement

This mode measures the direct distance between the device and a target.

1. Aim the laser beam at the desired target.
2. Press the '**READ**' button. The measured distance will be displayed instantly.

New optical lens / anti-interference ability

Large optical lens, ranging speed is more stable, better resistance to strong light interference.
New optical lens to increase the two light-sensitive hole, the traditional optical lens without photosensitive hole.



USB charging / extension lever

USB charging design: to avoid the use of disposable batteries to pollute the environment at the same time easy to use
Extension rod: can be used for gap measurement and can not directly measure the summer wind, corners, edges and so on



2.4-inch high-definition large-screen color screen design.

Chinese and English large color screen design to meet a variety of measurement requirements,

measurement data at a glance, more convenient and clear reading.



Figure 3: Illustration of the device performing a single distance measurement to a wall.

3.1.2 Continuous Measurement (Tracking)

This mode continuously measures and displays the distance as the device moves, showing maximum and minimum values.

1. From single measurement mode, press and hold the **'READ'** button.
2. Move the device slowly. The display will update in real-time, showing the current, maximum, and minimum distances.
3. Press the **'READ'** button again to stop continuous measurement.

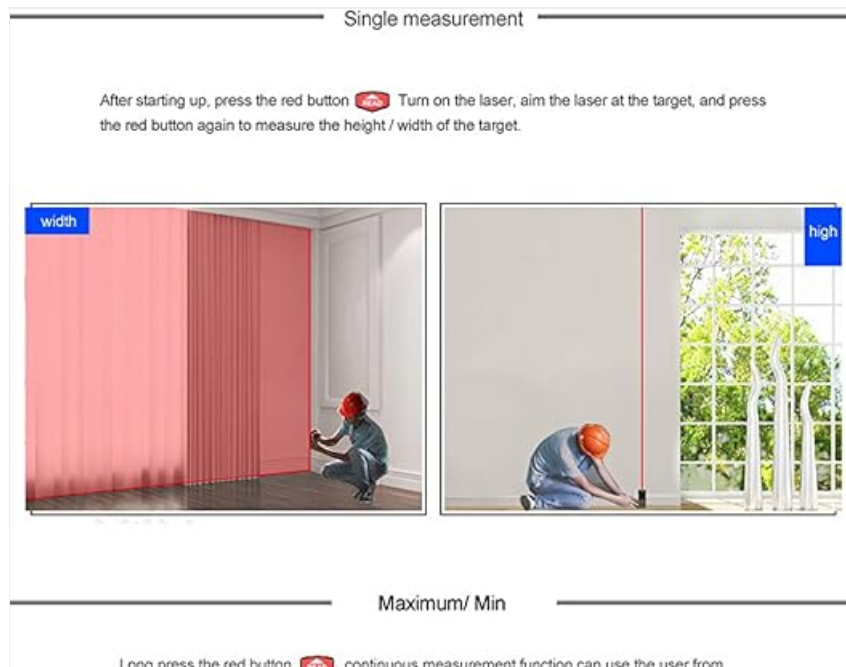
3.2 Advanced Measurement Functions

Press the **'MENU'** button to cycle through various measurement functions.

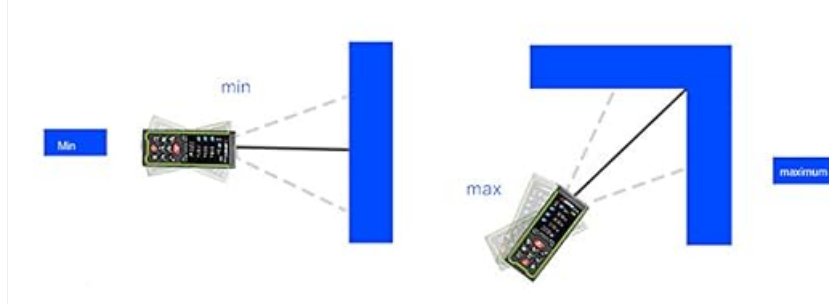
3.2.1 Area Measurement

Calculates the area of a rectangular surface.

1. Select the Area measurement function from the menu.
2. Measure the first side (e.g., length) by aiming the laser and pressing **'READ'**.
3. Measure the second side (e.g., width) by aiming the laser and pressing **'READ'**.
4. The calculated area will be displayed.



a measurement point of departure, measuring the maximum or minimum distance,



Area measurement

select  icon, first measure the length, in the measurement width, the final measurement height,



Figure 4: Example of using the device to measure the length and width for area calculation.

3.2.2 Volume Measurement

Calculates the volume of a rectangular space.

1. Select the Volume measurement function.
2. Measure the length, width, and height sequentially by aiming the laser and pressing '**READ**' after each measurement.

3. The calculated volume will be displayed.

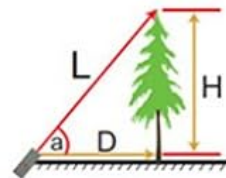
3.2.3 Pythagorean Measurement

Used for indirect measurement of heights or distances where direct measurement is not possible.

1. Select the desired Pythagorean function (e.g., two-point or three-point).
2. Follow the on-screen prompts to take the required measurements (e.g., hypotenuse and one leg) by aiming the laser and pressing **'READ'**.
3. The device will calculate and display the unknown dimension.

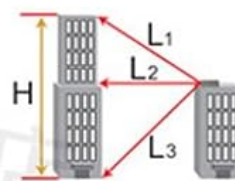
Pythagorean measurement

select  Icon, the first measurement of the hypotenuse, in the measurement of the level of the edge, not close to the measured object, measured by two or three times, together with the shortest automatic maximum distance



$$D = L \times \cos a$$

$$H = L \times \sin a$$



$$H = \sqrt{L_1^2 - L_2^2} + \sqrt{L_3^2 - L_2^2}$$

100 group date store is appropriate

Browsing  icon can store 100 group dates. press scan brows history date, shot press can up through, long press 1 second can down through





Figure 5: Diagram illustrating the principle of Pythagorean measurement for indirect height calculation.

3.2.4 Staking-Out Function

Helps to find positions that match a setting distance.

1. Select the Staking-Out function.
2. Enter the desired staking-out distance.
3. Move the device along the measurement line. The display will indicate when you are approaching or have reached the set distance.

3.3 Other Functions

3.3.1 Unit Selection

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

3.3.2 Reference Point Setting

The device allows setting four reference points: front, middle, rear, and extension benchmark. This ensures accurate measurements from different starting points. Consult the on-screen icons to select the appropriate reference point for your measurement.

3.3.3 Electronic Level Bubble

The integrated electronic level bubble assists in ensuring the device is held level for more accurate measurements, particularly for angle-related functions.

3.3.4 Data Storage and Recall

The device can store up to 100 sets of measurement data.

1. After a measurement, the result is automatically saved.
2. To recall stored data, press the **'MENU'** button until the data storage icon appears.
3. Use the arrow buttons to navigate through the stored measurements.

Rechargeable nickel-metal hydride battery / easy to save more environmentally friendly

Ni-MH rechargeable batteries, without the need to buy dry batteries, environmental protection and more money, line 200V power supply, is in the office, home, on the road, anytime, anywhere charging





Charging Po
charging

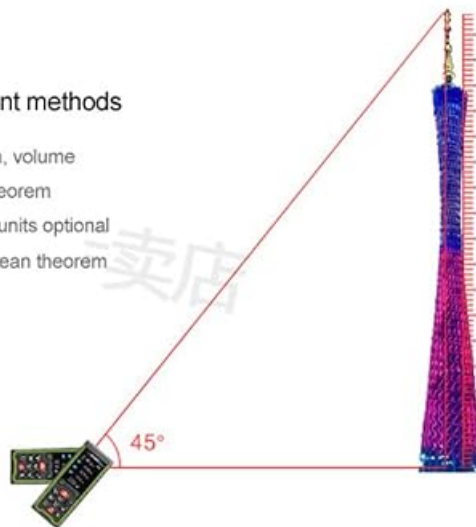
mobile phone
charger

Computer
charging

Car charger

Bevel / angle a variety of measurement methods

- *Comes with angle measurement, distance, area, volume
- *Continuous Measurement and Pythagorean Theorem
- *With bevel measurement function: 0 and % two units optional
- *Angular measurement support makes Pythagorean theorem more convenient and accurate



Stakeout measurement

Stakeout measurement, delay measurement function, full-featured, in addition to distance, area, volume side continued measurement and indirect measurement
Also has a lofting function and delay measurement.



Figure 6: The device display showing multiple lines of stored measurement data.

4. MAINTENANCE

4.1 Care and Cleaning

- Keep the device dry. Wipe it with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- Clean the laser lens regularly with a soft, lint-free cloth to ensure accurate measurements.
- Avoid exposing the device to extreme temperatures or direct sunlight for extended periods.

4.2 Storage

When not in use, store the device in its portable bag in a cool, dry place. If storing for an extended period, ensure the battery is partially charged (around 50%) to prolong its lifespan.

5. TROUBLESHOOTING

If you encounter issues with your SNDWAY SW-S50, refer to the table below for common problems and solutions.

Problem	Possible Cause	Solution
Device does not power on	Low battery; Device malfunction	Charge the battery; If problem persists, contact customer support.
Inaccurate measurements	Dirty laser lens; Incorrect reference point; Unstable surface	Clean the laser lens; Verify reference point setting; Ensure stable measurement conditions.
Laser not visible	Bright ambient light; Laser off	Use in lower light conditions; Ensure laser is activated (press READ button).
Display error message	Measurement out of range; Internal error	Ensure target is within 0.05-50m range; Restart device; If persistent, contact support.

6. SPECIFICATIONS

Detailed technical specifications for the SNDWAY SW-S50 Laser Distance Meter.

Parameter	Value
Measuring Range	0.05 ~ 50m
Accuracy	±1.5mm (0.079 inch)
Units	m / in / ft
Laser Type	635nm Class II
Laser Maximum Output	<1mW
Electronic Level Bubble	Yes
Maximum Storage	100 pcs
Angle Measuring Range	±90 degrees
Auto Laser Off	20 seconds (adjustable)
Auto Power Off	150 seconds (adjustable)

Parameter	Value
Battery	3.7V 1000mA Li-battery
Storage Temperature	-20°C to 60°C
Operation Temperature	0°C to 40°C
Storage Humidity	85% RH
Product Size	125 x 52 x 27mm
IP Rating	IP54

7. WARRANTY AND SUPPORT

7.1 Warranty Information

This product is covered by a manufacturer's warranty against defects in materials and workmanship. Please refer to the warranty card included in your package for specific terms, conditions, and duration of coverage. Keep your proof of purchase for warranty claims.

7.2 Customer Support

For technical assistance, troubleshooting not covered in this manual, or warranty inquiries, please contact SNDWAY customer support. Refer to the contact information provided on the product packaging or the official SNDWAY website.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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.

Submit question