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SNDWAY SW-T4S

SNDWAY Digital Laser Distance Meter SW-T4S User Manual

Model: SW-T4S | Brand: SNDWAY

1. INTRODUCTION

The SNDWAY SW-T4S Digital Laser Distance Meter is a precision instrument designed for accurate and rapid measurement of distances, areas, and volumes. It features advanced laser technology, a user-friendly interface, and multiple measurement modes to assist in various professional and DIY applications. This manual provides essential information for safe and effective operation of your device.

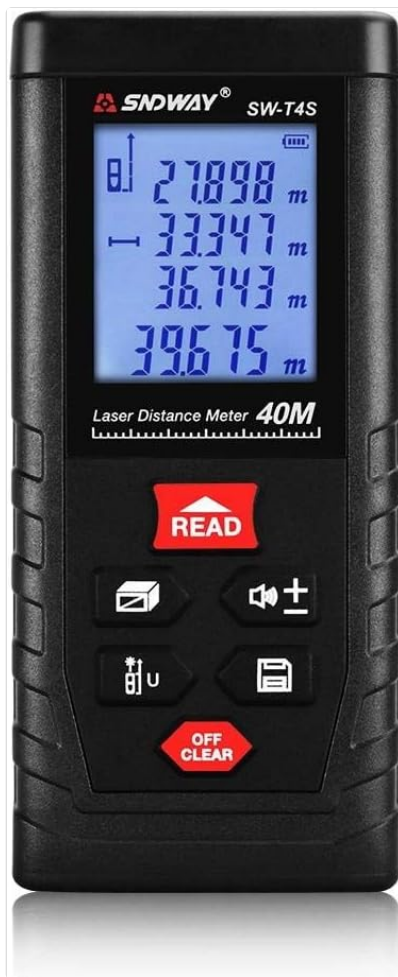
2. SAFETY INFORMATION

WARNING: This device uses a Class II laser. Avoid direct eye exposure to the laser beam. Do not stare into the beam or direct it at other people. Do not open the device housing.

- Read all instructions carefully before using the device.
- Do not attempt to modify or disassemble the device.
- Keep the device out of reach of children.
- Use only specified batteries.
- Do not operate the device in explosive environments or near flammable liquids and gases.
- Ensure the measurement surface is suitable for laser reflection to avoid inaccurate readings.

3. PRODUCT OVERVIEW

The SNDWAY SW-T4S features a compact design with an intuitive button layout and a clear LCD display for easy readability.



Front view of the device with its LCD screen and primary function buttons.



Angled view showing the laser emission and reception lens.

3.1. Components

- **Laser Emission/Reception Lens:** For sending and receiving laser signals.
- **LCD Display:** Shows measurement data, unit, battery status, and mode indicators.
- **Control Buttons:**
 - **READ Button:** Initiates measurement, confirms selection.
 - **OFF/CLEAR Button:** Turns off the device, clears current measurement.
 - **Function Buttons:** For area, volume, Pythagorean, continuous measurement, unit change, and benchmark settings.
- **Battery Compartment:** Located at the rear of the device.
- **Strap Hole:** For attaching a hanging rope.

3.2. Display Indicators

- Laser active indicator
- Reference point (front/rear)
- Measurement unit (m, ft, in)
- Battery status
- Measurement mode (distance, area, volume, Pythagorean)
- Error messages

4. SETUP

4.1. Battery Installation

The device requires two 1.5V AAA batteries (not included in the package due to shipping regulations).

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 (+/-).
4. Close the battery compartment cover securely.



Rear view showing the battery compartment for two AAA batteries.

5. OPERATING INSTRUCTIONS

5.1. Power On/Off

- To power on, press the **READ** button.
- To power off, press and hold the **OFF/CLEAR** button for a few seconds. The device also features auto-off after 150 seconds of inactivity.

5.2. Basic Distance Measurement

1. Point the laser at the target.
2. Press the **READ** button once. The laser will activate.
3. Press the **READ** button again to take the measurement. The result will be displayed on the screen.

5.3. Area Measurement

1. Press the **MODE** button until the area icon appears on the display.
2. Measure the first side (length) by pressing **READ** twice.
3. Measure the second side (width) by pressing **READ** twice.
4. The device will automatically calculate and display the area.

5.4. Volume Measurement

1. Press the **MODE** button until the volume icon appears.
2. Measure the length, width, and height sequentially by pressing **READ** twice for each dimension.
3. The device will automatically calculate and display the volume.

5.5. Pythagorean Theorem (Indirect Measurement)

This mode allows for indirect measurement of heights or distances using two or three measurements.

1. Press the **MODE** button until the desired Pythagorean icon appears (e.g., for two-point or three-point measurement).
2. Follow the on-screen prompts to take the required measurements (hypotenuse, base, etc.).
3. The device will calculate and display the indirect measurement.

5.6. Continuous Measurement (Max/Min Tracking)

1. Press the **MODE** button until the continuous measurement icon appears.
2. Move the device slowly towards or away from the target. The display will continuously update the current distance, along with the maximum and minimum distances recorded during the session.
3. Press **OFF/CLEAR** to exit continuous measurement.

5.7. Addition/Subtraction of Measurements

- After taking a measurement, press the **+/-** button to enter addition or subtraction mode.
- Take another measurement. The device will add or subtract it from the previous value.
- Repeat as needed.

5.8. Setting Measurement Benchmark

The device can measure from its front edge or its rear edge.

- Press the **Benchmark** button (often indicated by an icon showing the device's base) to toggle between front and rear reference points.
- The display will show an icon indicating the active reference point.

5.9. Unit Selection

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

5.10. Data Storage and Recall

The device can store and recall previous measurements.

- After a measurement, the value is automatically stored.
- Press the **SAVE/RECALL** button to view stored data. Use arrow buttons (if available) to navigate.
- Press **OFF/CLEAR** to exit data recall mode.

6. MAINTENANCE

- **Cleaning:** Use a soft, damp cloth to clean the device. Do not use abrasive cleaners or solvents. Pay special attention to keeping the laser lens clean.
- **Storage:** Store the device in its portable pouch in a cool, dry place when not in use. Remove batteries if storing for extended periods to prevent leakage.
- **Battery Replacement:** Replace batteries when the low battery indicator appears on the display.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not turn on	Dead or incorrectly inserted batteries	Check battery polarity, replace with new batteries.
Inaccurate measurements	Unsuitable target surface (too reflective/absorbent), obstruction, device movement	Use a target plate for difficult surfaces. Ensure clear line of sight and hold device steady.
Error message on display	Measurement out of range, environmental interference	Ensure target is within 0.05m to 40m. Avoid strong light sources. Clear laser path.
Laser not visible	Strong ambient light, laser off	Operate in lower light conditions. Press READ button to activate laser.

8. SPECIFICATIONS

Feature	Specification
Measuring Range	0.05 to 40 meters
Accuracy	±2mm (0.079 inch)
Laser Class	Class II

Feature	Specification
Laser Maximum Output	<1mW
Dust & Splash Proof	IP54
Laser Auto-off	20 seconds
Power Auto-off	150 seconds
Operation Temperature	0°C to 40°C (32°F to 104°F)
Storage Temperature	-20°C to 60°C (14°F to 140°F)
Power Supply	2 x 1.5V AAA batteries
Dimensions	112 x 50 x 25 mm (4.41 x 1.97 x 0.99 inches)
Weight	Approx. 250 g
Certifications	CE, ROHS, FCC
Additional Features	Air Bubble Level, Backlit LCD, Buzzer Indication, Data Hold/Clear

9. PACKAGE CONTENTS

Upon opening the retail box, verify that all items are present:

- 1 x SNDWAY 40M Laser Distance Meter (SW-T4S)
- 1 x Portable Pouch
- 1 x Hanging Rope
- 1 x User Manual (this document)
- 1 x Retail Box



Contents included in the product package.

10. WARRANTY AND SUPPORT

Information regarding product warranty and customer support was not provided in the source data. Please refer to the product packaging or contact your retailer for details on warranty coverage and technical assistance.