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**SNDWAY SW-S100**

# SNDWAY SW-S100 Laser Distance Meter User Manual

Model: SW-S100

## 1. Introduction

The SNDWAY SW-S100 is a professional-grade digital laser distance meter designed for precise and rapid measurement of distances, areas, and volumes. It incorporates advanced features such as angle measurement, Pythagorean theorem calculations, and continuous measurement, making it an indispensable tool for construction, interior design, and various other applications. This manual provides comprehensive instructions for the safe and effective use of your device.

## 2. Safety Information

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

### 2.1 Laser Safety

- This device emits Class II laser radiation. Do not stare into the laser beam or direct it at other people or animals.
- Do not disassemble or modify the device. Unauthorized repairs can cause laser radiation exposure.
- Avoid using optical instruments (e.g., binoculars, telescopes) to view the laser beam, as this can increase eye hazard.
- Ensure the laser is not pointed at reflective surfaces that could redirect the beam into eyes.

### 2.2 General Safety

- Keep the device out of reach of children.
- Do not operate the device in explosive atmospheres or near flammable liquids or gases.
- Protect the device from moisture and direct sunlight.
- Use only the specified rechargeable batteries (3x 1.2V 800mAh Ni-MH) and charging methods.

## 3. Product Overview

Familiarize yourself with the components and controls of your SNDWAY SW-S100 Laser Distance Meter.




Figure 3.1: Front view of the SNDWAY SW-S100 Laser Distance Meter, showing the display and keypad.




Figure 3.2: Detailed view of the SW-S100 keypad with function labels for each button.

### 3.1 Keypad Functions

- **READ** / **Turn On** / **MEAS:** Powers on the device, activates laser, initiates single or continuous measurement.
- **+:** Addition function.
- **-:** Subtraction function.
- **MENU** / **=:** Enters menu, confirms selection, or acts as equals sign in calculations.
- **UNIT:** Changes measurement units (m, ft, in, ft+in).
- **Volume** / **Area:** Toggles between volume and area measurement modes.
- **Angle** / **Pythagoras:** Toggles between angle measurement and Pythagorean theorem modes.
- **Reference Point** / **Delay Measurement** / **Staking-out:** Adjusts measurement reference point (front, middle, rear), activates delay measurement, or staking-out function.
- **Save** / **Record:** Saves current measurement data or recalls stored data.
- **OFF** / **CLEAR:** Powers off the device or clears the current measurement/input.

## 4. Setup

### 4.1 Battery Installation

1. Locate the battery compartment cover on the rear of the device.
2. Slide the cover downwards to open the compartment.
3. Insert three 1.2V 800mAh Ni-MH rechargeable batteries, ensuring correct polarity (+/-).
4. Close the battery compartment cover by sliding it upwards until it clicks into place.

### 4.2 Charging the Batteries

Connect the included USB cable to the device's USB port and to a standard USB power adapter (not included) or a computer's USB port. The battery indicator on the display will show charging status. Fully charge the batteries before first use.

### 4.3 Initial Power On

Press the **READ** button to power on the device. The display will illuminate, and the device will be ready for use.

## 5. Operating Instructions

### 5.1 Power On/Off

- To power on: Press **READ**.
- To power off: Press and hold **OFF** / **CLEAR** for 2 seconds. The device also features automatic power-off after 100-300 seconds of inactivity.

### 5.2 Basic Measurement (Single/Continuous)

1. Point the laser at the target surface.
2. For a single measurement: Press **READ** once to activate the laser, then press **READ** again to take the measurement.
3. For continuous measurement (tracking Max/Min distance): Press and hold **READ** for 2 seconds. The device will continuously measure, displaying maximum and minimum values. Press **READ** again to stop.

### 5.3 Changing Measurement Units

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

### 5.4 Setting Reference Point

The measurement can be taken from the front, middle, or rear of the device. Press the **Reference Point** button to toggle between these options. The display will indicate the current reference point.

### 5.5 Area Measurement

1. Press the **Volume** / **Area** button once to enter area measurement mode. An icon indicating area measurement will appear on the display.
2. Measure the first side (e.g., length) by pressing **READ**.
3. Measure the second side (e.g., width) by pressing **READ** again.
4. The calculated area will be displayed.

### 5.6 Volume Measurement

1. Press the **Volume** / **Area** button twice to enter volume measurement mode. An icon indicating volume measurement will appear.
2. Measure the length by pressing **READ**.
3. Measure the width by pressing **READ**.
4. Measure the height by pressing **READ**.
5. The calculated volume will be displayed.

### 5.7 Pythagorean Measurement (Indirect Measurement)

The device supports various indirect measurement modes using the Pythagorean theorem (e.g., measuring height from two or three points). Press the **Angle** / **Pythagoras** button to cycle through these modes. Follow the on-screen prompts to take the required measurements (hypotenuse, base, etc.).

### 5.8 Angle Measurement

The built-in digital bubble level allows for angle measurement. Press the **Angle** / **Pythagoras** button until the angle measurement icon appears. The current tilt angle will be displayed.

### 5.9 Addition and Subtraction

After taking a measurement, press **+** to add the next measurement or **-** to subtract it. Take the next measurement, then press **MENU** / **=** to see the result.

### 5.10 Data Storage and Recall

The device can store up to 100 measurement units. Press the **Save** / **Record** button to save the current measurement. Press and hold the **Save** / **Record** button to enter data recall mode and browse stored measurements.

## 6. Maintenance

- Clean the device with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- Wipe the laser lens gently with a clean, lint-free cloth. Do not touch the lens directly with fingers.
- Store the device in its portable pouch in a cool, dry place when not in use.
- If the device will not be used for an extended period, remove the batteries to prevent leakage.
- The device has an IP54 rating, meaning it is dust and splash proof. Do not submerge it in water.

## 7. Troubleshooting

| Problem | Possible Cause | Solution |
|---|---|---|
| Device does not power on. | Batteries are low or incorrectly installed. | Charge or replace batteries. Check polarity. |
| Measurement error / Inaccurate readings. | Target surface is too reflective, transparent, or too far. Strong ambient light. Device moved during measurement. | Use a target plate for difficult surfaces. Measure in lower light conditions. Ensure device is stable. Perform self-calibration if needed. |
| Laser beam is not visible. | Strong ambient light. Laser not activated. | Measure in lower light. Press READ button to activate laser. |
| Display is dim or flickering. | Low battery. | Recharge batteries. |

### 7.1 Error Codes

- **Error 204:** Calculation error. Clear and re-measure.
- **Error 208:** Out of measurement range. Move closer or further from target.
- **Error 252:** Temperature out of range. Operate within specified temperature range (0~40°C).
- **Error 253:** Battery voltage too low. Recharge batteries.

## 8. Specifications




Figure 8.1: Dimensions of the SNDWAY SW-S100 Laser Distance Meter.

| Feature | Specification |
|---|---|
| Measure Range | 0.05 - 100M (0.16 to 328ft) |
| Accuracy | ±2 mm (0.079 inch) |
| Selectable Unit | m, ft, in |
| Min. Display Unit | 1mm |
| Laser Class | Class II 635nm |
| Laser Maximum Output | <1Mw |
| Max. Data Storage | 100 Units |
| Angle of Tilt | ±90 Degree |

| Feature | Specification |
| --- | --- |
| Self Calibration | -9mm to +9mm |
| Auto Backlight OFF | 5S-60S |
| Auto Laser OFF | 20S-120S |
| Auto Switch OFF | 100S-300S |
| Operation Temperature | 0~40°C (32~104°F) |
| Storage Temperature | -20~60°C (14~140°F) |
| Storage Humidity | RH85% |
| Dust & Splash proof | IP54 |
| Power Supply | 3x 1.2V 800mAh Ni-MH (Included) |
| Material | Plastic |
| Item Weight | 318 g |

## 9. Package Contents




Figure 9.1: All items included in the SNDWAY SW-S100 product package.

The following items are included in your SNDWAY SW-S100 package:

- 1 x 100M Laser Distance Meter (SNDWAY SW-S100)
- 1 x Portable pouch
- 1 x Hanging rope
- 1 x USB Cable
- 3 x 1.2V 800mAh Ni-MH Battery
- 1 x User manual (this document)
- 1 x Retail box

## 10. Warranty and Support

SNDWAY products are manufactured to high quality standards. For warranty information or technical support, please refer to the warranty card included in your package or contact your point of purchase. Keep your purchase receipt as proof of purchase.

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