

SNDWAY SW-TG100

SNDWAY Laser Distance Meter SW-TG100 User Manual

Model: SW-TG100

1. INTRODUCTION

Thank you for choosing the SNDWAY SW-TG100 Laser Distance Meter. This device is designed for precise and rapid measurement of distances, areas, and volumes. It utilizes laser technology to provide accurate readings up to 100 meters, making it an essential tool for professionals and DIY enthusiasts in construction, interior design, and various other fields. Please read this manual carefully before using the device to ensure safe and optimal operation.

2. SAFETY INFORMATION

This device emits a Class 2 laser. Observe the following safety precautions:

- **Do not stare into the laser beam directly.** Direct exposure to the laser can cause eye damage.
- **Do not aim the laser beam at people or animals.**
- **Do not disassemble or modify the device.** Unauthorized modifications can lead to hazardous laser radiation exposure.
- Keep the device out of reach of children.
- Use the device only for its intended purpose as described in this manual.
- Avoid using the device in explosive environments or near flammable materials.

3. PRODUCT OVERVIEW

The SNDWAY SW-TG100 is a compact and ergonomic laser distance meter. Below is an image illustrating the device's general appearance.



Figure 1: Front view of the SNDWAY SW-TG100 Laser Distance Meter. The image shows the device's display screen, measurement buttons, and the laser emission/reception lens.

Key components typically include:

- **LCD Display:** Shows measurement results, unit, battery status, and function indicators.
- **Measurement Button:** Initiates single or continuous measurements.
- **Function Buttons:** For selecting measurement modes (distance, area, volume, Pythagorean, etc.), unit conversion, and saving data.
- **Clear/Off Button:** Clears the last measurement or turns the device off.
- **Laser Aperture:** Where the laser beam is emitted and received.
- **Battery Compartment:** (If applicable) For inserting or accessing batteries.

4. SETUP

4.1 Powering On/Off

- **To Power On:** Press the **[MEAS]** button briefly. The display will light up.
- **To Power Off:** Press and hold the **[CLEAR/OFF]** button for a few seconds until the display turns off. The device will also automatically power off after a period of inactivity to conserve battery.

4.2 Battery Installation (if applicable)

While the product specifications indicate no batteries are required, this typically implies an internal rechargeable battery. If your model requires external batteries, open the battery compartment cover located on the back or bottom of the device. Insert the specified battery type (e.g., AAA batteries) according to the polarity indicators (+/-). Close the compartment cover securely.

4.3 Unit Setting

To change the measurement unit (e.g., meters, feet, inches), press the **[UNIT]** button repeatedly until the desired unit is displayed.

5. OPERATING INSTRUCTIONS

5.1 Single Distance Measurement

1. Turn on the device.
2. Point the laser at the target surface.
3. Press the **[MEAS]** button once. The laser will activate.
4. Press the **[MEAS]** button again. The measurement will be taken, and the result will appear on the display.

5.2 Area Measurement

1. Press the **[FUNCTION]** button until the area measurement icon (usually a square or rectangle) appears on the display.
2. Measure the first side (e.g., length) by pointing the laser and pressing **[MEAS]**.
3. Measure the second side (e.g., width) by pointing the laser and pressing **[MEAS]** again.
4. The device will automatically calculate and display the area.

5.3 Volume Measurement

1. Press the **[FUNCTION]** button until the volume measurement icon (usually a cube) appears on the display.
2. Measure the length by pointing the laser and pressing **[MEAS]**.
3. Measure the width by pointing the laser and pressing **[MEAS]**.
4. Measure the height by pointing the laser and pressing **[MEAS]**.
5. The device will automatically calculate and display the volume.

5.4 Continuous Measurement (Tracking)

This mode allows for dynamic measurement, displaying the distance in real-time as you move the device.

1. Press and hold the **[MEAS]** button (or press it twice quickly, depending on the model) to enter continuous measurement mode.
2. Move the device slowly towards or away from the target. The display will update with the current distance.
3. Press **[MEAS]** or **[CLEAR/OFF]** to exit continuous measurement mode.

6. MAINTENANCE

- **Cleaning:** Use a soft, damp cloth to clean the device casing. Do not use abrasive cleaners or solvents. Clean the laser lens carefully with a soft, lint-free cloth, similar to cleaning camera lenses.
- **Storage:** Store the device in a cool, dry place, away from direct sunlight and extreme temperatures. If storing for an extended period, remove any external batteries (if applicable).
- **Avoid Impact:** Protect the device from drops and strong impacts, which can affect its accuracy and functionality.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not turn on.	Low or depleted battery.	Charge the device or replace batteries (if applicable).

Problem	Possible Cause	Solution
Inaccurate measurements.	Dirty laser lens; unstable measurement surface; strong light interference.	Clean the laser lens; ensure a stable measurement point; measure in less bright conditions if possible.
"Error" message on display.	Measurement out of range; poor reflection from target.	Ensure target is within measurement range (0.05m-100m); use a reflective target plate if measuring against highly reflective or transparent surfaces.

8. SPECIFICATIONS

Feature	Detail
Manufacturer	SNDWAY
Model	SW-TG100
Measurement Range	Up to 100 meters
Measurement Accuracy	Typically $\pm 2\text{mm}$ (specific accuracy may vary based on conditions)
Measurement Units	m / ft / in
Laser Class	Class 2
Item Weight	260 g
Package Dimensions	16 x 8.8 x 5.2 cm
Batteries Required	No (implies internal rechargeable battery)
Date First Available	July 7, 2021

9. WARRANTY AND SUPPORT

SNDWAY products are manufactured to high-quality standards. For specific warranty information, please refer to the warranty card included with your product or contact the retailer from whom you purchased the device. For technical support, troubleshooting assistance beyond this manual, or service inquiries, please contact SNDWAY customer service through their official website or the contact information provided with your purchase. Please retain your proof of purchase for warranty claims.