

Road Far SW-E80

Road Far SNDWAY SW-E80 Digital Laser Distance Meter

Model: SW-E80 | Brand: Road Far

1. INTRODUCTION

Thank you for choosing the Road Far SNDWAY SW-E80 Digital Laser Distance Meter. This device is designed for precise distance measurement, offering functions for calculating area, volume, and indirect measurements using the Pythagorean theorem. Its compact, handheld design and user-friendly interface make it ideal for various professional and DIY applications. Please read this manual thoroughly before using the device to ensure safe and optimal operation.

2. SAFETY INFORMATION

This device uses a Class II laser. Please observe the following safety precautions:

- Do not stare directly into the laser beam.
- Do not aim the laser beam at people or animals.
- Do not use optical tools (e.g., binoculars, telescopes) to view the laser beam.
- Keep the device out of reach of children.
- Do not attempt to modify or disassemble the device.
- Use only specified batteries.
- Avoid using the device in explosive environments or near flammable materials.

Failure to follow these safety instructions may result in injury or damage to the device.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- 1 x SNDWAY SW-E80 Laser Distance Meter (80m)
- 1 x Portable Pouch
- 1 x Hanging Rope
- 1 x User Manual
- 1 x Retail Box
- *Note: 2x AAA 1.5V batteries are not included.*

4. PRODUCT OVERVIEW

Familiarize yourself with the components of your laser distance meter.



Figure 1: Front view of the SNDWAY SW-E80 Laser Distance Meter, highlighting the multi-line LCD display and various function buttons.



Figure 2: Side view of the device, illustrating the built-in air bubble level for horizontal alignment.



Figure 3: Detail of the laser emitter and receiver lenses located at the top of the device.



Figure 4: Rear view with the battery compartment open, indicating where to insert two AAA batteries.

Key Features:

- Instant measurement of distance, area, and volume.
- Wide measuring range: 0 to 80 meters.
- High accuracy: ± 2 mm.
- Indirect measurement by Pythagorean Theorem.

- Single/Continuous measurement.
- Max/Min distance tracking.
- Easy addition/subtraction of measurements.
- Selectable units: meters (m), inches (in), and feet (ft).
- Data storage/recall function (up to 99 data sets).
- Data hold/clear function.
- Integrated air bubble level.
- Large LCD with backlight and multi-line display (4 lines).
- Automatic correction and error report technology.
- Buzzer indication.
- Battery status indicator.
- IP54 dust and splash protection.
- Automatic and manual power off function.

5. SETUP

5.1 Battery Installation

1. Open the battery compartment cover located at the rear of the device (refer to Figure 4).
2. Insert two 1.5V AAA batteries, ensuring correct polarity (+/-).
3. Close the battery compartment cover securely.

Note: Remove batteries if the device will not be used for an extended period to prevent leakage.

6. OPERATING INSTRUCTIONS

6.1 Power On/Off

- To power on: Press the **MEAS** button. The laser will activate.
- To power off: Press and hold the **CLEAR/OFF** button for a few seconds. The device also features automatic power-off after 3 minutes of inactivity (laser off after 30 seconds).

6.2 Unit Selection

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

6.3 Measurement Reference Point

The device can measure from its front or rear edge. Press the reference point button (often indicated by an icon with an arrow pointing from the front or rear) to switch between these modes. The current reference point is usually displayed on the screen.

6.4 Single Distance Measurement

1. Point the laser at the target.
2. Press the **MEAS** button once. The measured distance will be displayed.

6.5 Continuous Measurement (Tracking)

1. Press and hold the **MEAS** button for a few seconds, or press it twice quickly (depending on model, refer to on-screen icons).
2. Move the device. The display will continuously update the distance, showing maximum and minimum values.

3. Press **MEAS** again to stop continuous measurement.

6.6 Area Measurement

1. Press the **FUNCTION** button (often indicated by a square icon) until the area measurement icon appears.
2. Measure the first side (length) by pressing **MEAS**.
3. Measure the second side (width) by pressing **MEAS** again.
4. The device will automatically calculate and display the area.

6.7 Volume Measurement

1. Press the **FUNCTION** button until the volume measurement icon (cube) appears.
2. Measure length, width, and height sequentially by pressing **MEAS** after each measurement.
3. The device will automatically calculate and display the volume.

6.8 Pythagorean Measurement (Indirect Measurement)

This function allows indirect measurement of height or distance when direct measurement is obstructed.

1. Press the **FUNCTION** button until the Pythagorean icon appears (e.g., a triangle). There might be different Pythagorean modes (e.g., two-point or three-point).
2. Follow the on-screen prompts to measure the required sides (hypotenuse, base) by pressing **MEAS** for each.
3. The device will calculate and display the unknown side.

6.9 Addition and Subtraction

After a measurement, press the **+** or **-** button to add or subtract subsequent measurements from the current total.

6.10 Data Storage and Recall

- To store data: After a measurement, press the **SAVE** button (or similar icon). The device can store up to 99 data sets.
- To recall data: Press the **HISTORY** or **MEM** button (or similar icon) to browse through stored measurements.
- To clear data: While viewing stored data, press **CLEAR/OFF** to delete the current entry or clear all data (refer to specific on-screen prompts).

7. MAINTENANCE

- **Cleaning:** Wipe the device with a soft, damp cloth. Do not use abrasive cleaners or solvents. Clean the laser lens carefully with a soft cloth, similar to cleaning camera lenses.
- **Storage:** Store the device in its portable pouch in a cool, dry place, away from direct sunlight and extreme temperatures. Remove batteries if storing for extended periods.
- **Calibration:** The device is factory calibrated. If you suspect accuracy issues, consult the troubleshooting section or contact support.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on	Low or dead batteries; incorrect battery polarity.	Replace batteries; ensure correct polarity.

Problem	Possible Cause	Solution
Inaccurate measurements	Unstable measurement surface; laser obstructed; extreme environmental conditions; incorrect reference point.	Ensure stable surface; clear laser path; measure in suitable conditions; verify reference point setting.
"Error" message on display	Measurement out of range; strong light interference; laser not hitting target.	Ensure target is within range (0-80m); avoid strong light; ensure laser hits a reflective surface.
Laser not visible	Bright ambient light; laser auto-off activated.	Use in lower light conditions; press MEAS to reactivate laser.

If problems persist, please contact customer support.

9. SPECIFICATIONS

Parameter	Value
Measuring Range	0 - 80 m
Accuracy	± 2 mm
Laser Class	Class II
Laser Wavelength	635 nm
Max Laser Output	<1 mW
Dust & Splash Proof	IP54
Automatic Laser Off	30 seconds
Automatic Power Off	3 minutes
Operating Temperature	0 – 40 °C (32 – 104 °F)
Storage Temperature	-10 – 60 °C (14 – 140 °F)
Battery Type	2 x 1.5V AAA (not included)
Dimensions	118 x 54 x 28 mm
Material	Plastic

10. WARRANTY AND SUPPORT

This product comes with a standard manufacturer's warranty. For specific warranty terms and conditions, please refer to the documentation provided at the time of purchase or contact your retailer.

For technical support, troubleshooting assistance, or inquiries about your device, please contact Road Far customer service through their official website or the contact information provided with your purchase.

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