

## SNDWAY SW-DM100

# SNDWAY SW-DM100 Laser Distance Meter User Manual

Model: SW-DM100 | Brand: SNDWAY

## INTRODUCTION

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This manual provides detailed instructions for the safe and effective operation of your SNDWAY SW-DM100 Laser Distance Meter. This high-precision device is designed for accurate distance measurements, offering a range of functions for various applications. Please read this manual thoroughly before using the device.

## SAFETY INFORMATION

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**Laser Radiation:** This device emits Class 2 laser radiation. Do not stare into the laser beam. Avoid direct eye exposure. Do not aim the laser at people or animals.

**Battery Safety:** Use only specified battery types. Do not mix old and new batteries. Remove batteries if the device will not be used for an extended period to prevent leakage.

**Environmental Conditions:** Do not operate the device in explosive atmospheres or near flammable materials. Avoid exposing the device to extreme temperatures, humidity, or direct sunlight.

**Maintenance:** Do not attempt to disassemble or modify the device. Repairs should only be performed by authorized service personnel.

## PACKAGE CONTENTS

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The standard package for the SNDWAY SW-DM100 Laser Distance Meter includes the following items:

- 1 x Laser Distance Meter (SW-DM100)
- 1 x Short Hand Strap
- 1 x Cloth Carrying Pouch
- 1 x English User Manual

## PRODUCT OVERVIEW

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The SNDWAY SW-DM100 features a robust design with an easy-to-read display and intuitive button layout.

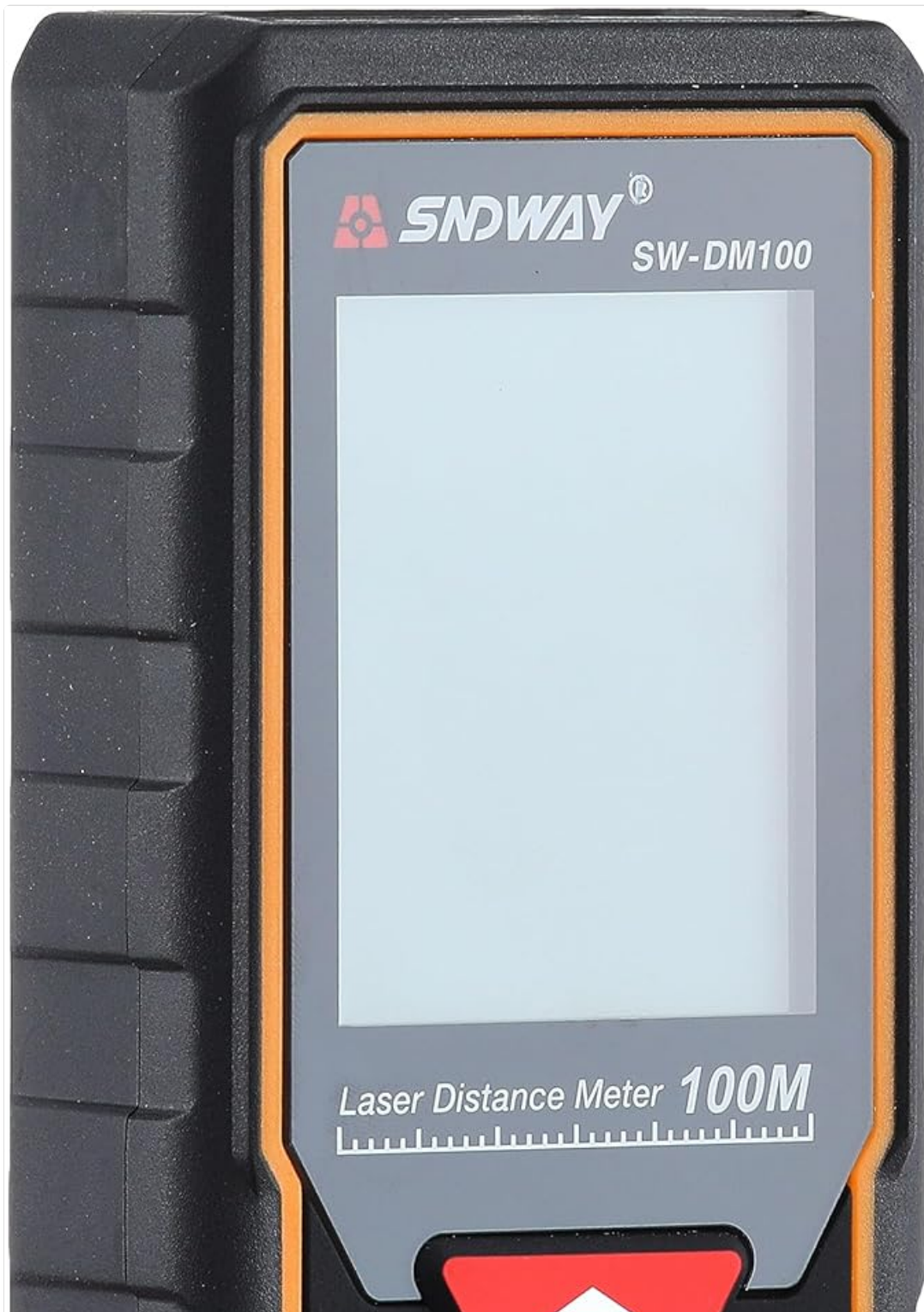




Image: Front view of the SNDWAY SW-DM100 Laser Distance Meter, showing the display and control buttons.

### Key Components:

- **LCD Display:** Large, backlit screen for clear visibility of measurements and settings.
- **READ Button:** Initiates measurement.
- **+/- Button:** Used for addition/subtraction functions.
- **Unit Button:** Changes measurement units (m/in/ft).
- **Function Button:** Selects measurement modes (area, volume, Pythagorean, continuous).
- **OFF/CLEAR Button:** Powers off the device or clears the current measurement.
- **Laser Emitter/Receiver:** Located at the top of the device.



Image: Close-up view of the laser emitter and receiver lens on the top of the device.

## SETUP

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### 1. Battery Installation:

1. Locate the battery compartment cover on the back of the device.
2. Slide the cover open.
3. Insert two AAA batteries (not included) according to the polarity indicators (+/-) inside the compartment.
4. Close the battery compartment cover securely.

### 2. Power On/Off:

- To power on, press the **READ** button.
- To power off, press and hold the **OFF/CLEAR** button for a few seconds, or the device will automatically power off after 150 seconds of inactivity.

## OPERATING INSTRUCTIONS

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### 1. Basic Single Distance Measurement:

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

screen.

## 2. Continuous Measurement (Tracking):

1. Press the **Function** button until the continuous measurement icon appears on the display.
2. Press the **READ** button. The device will continuously measure and display the current distance, as well as minimum and maximum values.
3. Press **OFF/CLEAR** to stop continuous measurement.

## 3. Area Measurement:

1. Press the **Function** button until the area measurement icon appears.
2. Press **READ** to measure the first side (length).
3. Press **READ** again to measure the second side (width).
4. The device will automatically calculate and display the area.

## 4. Volume Measurement:

1. Press the **Function** button until the volume measurement icon appears.
2. Press **READ** to measure length, then width, then height.
3. The device will automatically calculate and display the volume.

## 5. Pythagorean Measurement:

This function allows indirect measurement of height or distance using the Pythagorean theorem.

1. Press the **Function** button until the Pythagorean measurement icon appears (e.g., for two-point or three-point Pythagorean).
2. Follow the on-screen prompts to measure the required sides (hypotenuse, base).
3. The device will calculate and display the unknown side.

## 6. Addition and Subtraction:

1. Take a measurement.
2. Press the **+/-** button to select addition or subtraction mode.
3. Take another measurement. The result will be added or subtracted from the previous measurement.

## 7. Unit Conversion:

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

## 8. Historical Data Storage:

- The device can store up to 30 sets of measurement data.
- To recall historical data, press the **Memory** button (often indicated by a folder icon). Use the arrow buttons (if available, or **+/-**) to navigate through stored measurements.

## MAINTENANCE

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- **Cleaning:** Use a soft, damp cloth to clean the device surface. Do not use organic solvents or abrasive cleaning agents.
- **Storage:** If the device will not be used for a long time, remove the batteries and store it in a cool, dry place.
- **Lens Care:** Keep the laser emitter and receiver lenses clean. Use a soft cloth specifically designed for optical lenses to avoid scratching.
- **Protection:** Always use the provided carrying pouch to protect the device from dust and impact.





Image: The SNDWAY SW-DM100 Laser Distance Meter stored inside its protective cloth carrying pouch.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	Batteries are dead or incorrectly inserted.	Replace batteries or check polarity.
Inaccurate measurements.	Dirty laser lens; unstable measurement surface; extreme environmental conditions.	Clean the lens; ensure stable positioning; avoid measuring in direct sunlight or highly reflective surfaces.
Laser beam not visible.	Bright ambient light; laser not activated.	Move to a darker area; press the READ button to activate the laser.
Error message on display.	Measurement out of range; internal error.	Ensure target is within the measurement range (0.05m to 100m); power cycle the device. If the error persists, contact support.

## SPECIFICATIONS

Measurement Accuracy	± 2 mm
Measurement Range	0.05 m - 100 m
Measurement Units	Meter (m), Inch (in), Foot (ft)
Historical Data Storage	Up to 30 sets
Angle Range	± 90 degrees
Operating Temperature	0°C to 40°C (32°F to 104°F)
Storage Temperature	-20°C to 60°C (-4°F to 140°F)

Storage Humidity	20% to 80% RH
Automatic Power Off	150 seconds (without operation)
Power Supply	2 x AAA batteries (not included)
Product Material	Plastic
Product Weight	0.093 kg
Package Dimensions (L x W x H)	6.3 x 3.54 x 1.97 inches



Image: The SNDWAY SW-DM100 Laser Distance Meter held in a hand, illustrating its compact size and dimensions (4.4 inches / 11 cm length).

## WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the documentation provided with your purchase or contact your retailer. Keep your purchase receipt as proof of purchase for any warranty claims.