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SNDWAY SW-DS40

SNDWAY SW-DS40 Laser Distance Meter User Manual

Model: SW-DS40

1. Introduction

Thank you for choosing the SNDWAY SW-DS40 Laser Distance Meter. This device is designed for precise distance, area, volume, and Pythagorean measurements, as well as tilt level measurement. Please read this manual carefully before using the device to ensure safe and proper operation.

Safety Instructions

- Do not stare directly into the laser beam.
- Do not aim the laser beam at people or animals.
- Keep the device out of reach of children.
- Do not attempt to modify or disassemble the device.
- Use only specified AAA alkaline batteries.

2. Product Overview

The SNDWAY SW-DS40 is a compact and versatile laser distance meter. Below is an illustration of the device and its main components.





Figure 2.1: Front view of the SNDWAY SW-DS40 Laser Distance Meter. The display shows multiple measurement lines, including an angle of -25.0 degrees, and distance readings such as 0.663 m, 15.663 m, 28.776 m, and 39.998 m. Below the display, the device features

a large red 'READ' button, and smaller grey buttons for functions like area/volume, sound/reference point, unit/function selection, power off/clear, and save.

Device Components

1. **Laser Emission Aperture:** Where the laser beam exits.
2. **Laser Receiving Lens:** Where the laser beam returns.
3. **Display Screen:** Shows measurements, modes, and battery status.
4. **READ Button:** Initiates measurements.
5. **OFF/CLEAR Button:** Powers off the device or clears current measurement.
6. **Unit/Function Button (U):** Changes measurement units or cycles through functions.
7. **Sound/Reference Point Button:** Toggles sound and changes measurement reference point.
8. **Area/Volume Button:** Selects area or volume measurement mode.
9. **Save Button:** Stores measurement data.
10. **Battery Compartment:** Located at the rear of the device.

3. Setup

Battery Installation

1. Locate the battery compartment cover on the back of the device.
2. Slide the cover downwards to open.
3. Insert two (2) AAA alkaline batteries, ensuring correct polarity (+/-).
4. Close the battery compartment cover by sliding it upwards until it clicks into place.

Initial Power On

Press the **READ** button to power on the device. The display will light up, showing the last measurement mode or default single measurement mode.

4. Operating Modes

The SW-DS40 offers various measurement modes:

- **Single Distance Measurement:** Measures the direct distance between two points.
- **Continuous Measurement (Tracking):** Provides real-time distance updates as you move the device.
- **Area Measurement:** Calculates the area of a rectangular space by measuring two sides.
- **Volume Measurement:** Calculates the volume of a space by measuring three dimensions.
- **Pythagorean Measurement:** Calculates indirect distances using the Pythagorean theorem (e.g., height of a building).
- **Tilt Measurement:** Measures the angle of inclination.

Changing Measurement Units

Press the **U** button to cycle through measurement units (e.g., meters, feet, inches).

5. Taking Measurements

Single Distance Measurement

1. Point the laser at the target.
2. Press the **READ** button once. The measurement will appear on the display.

Area Measurement

1. Press the **Area/Volume** button until the area icon appears 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.

Tilt Measurement

The device automatically displays the tilt angle when in a measurement mode. Ensure the device is placed on a flat surface or held steadily to get an accurate reading.

6. 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 a cool, dry place, away from direct sunlight and extreme temperatures.
- Remove batteries if the device will not be used for an extended period to prevent leakage.

7. Troubleshooting

Problem	Possible Cause	Solution
Device does not power on	Low or dead batteries; Incorrect battery polarity	Replace batteries; Check battery orientation
Inaccurate measurements	Unstable surface; Obstruction in laser path; Dirty lens	Ensure stable measurement; Clear path; Clean lens

Problem	Possible Cause	Solution
Display shows 'Error'	Measurement out of range; Strong light interference	Measure within range (0.05m-40m); Avoid strong light

8. Specifications

Feature	Specification
Brand	SNDWAY
Model	SW-DS40
Measurement Range	0.05m - 40m
Measurement Accuracy	±2mm
Measurement Units	m / in / ft
Laser Class	Class II, <1mW
Battery Type	2 x AAA Alkaline Batteries
Data Storage	Up to 30 readings
Operating Temperature	0°C to 40°C (32°F to 104°F)
Storage Temperature	-20°C to 60°C (-4°F to 140°F)
Dimensions	18.2 x 8.8 x 5.2 cm (7.17 x 3.46 x 2.05 inches)
Weight	188 grams (0.41 lbs)

9. Warranty and Support

For warranty information and technical support, please refer to the product packaging or contact your local distributor. Keep your purchase receipt as proof of purchase.

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