Sndway SW-1000A

Sndway SW-1000A Laser Distance-Speed-Angle Meter User Manual

Model: SW-1000A

1. Introduction

This manual provides detailed instructions for the safe and effective operation of your Sndway SW-1000A Laser Distance-Speed-Angle Meter. Please read this manual thoroughly before using the device and retain it for future reference.

2. Safety Information

WARNING: This device uses a Class 1 laser. Avoid direct eye exposure to the laser beam. Do not aim the device at the sun or other strong light sources. Always operate the device in accordance with local safety regulations.

- Do not disassemble or modify the device.
- Keep the device out of reach of children.
- Use only the specified battery type (Li-ion polymer battery).
- Avoid exposing the device to extreme temperatures, moisture, or strong vibrations.

3. Package Contents

Verify that all items are present in your package:

- Sndway SW-1000A Laser Distance-Speed-Angle Meter
- Carrying Pouch
- USB Charging Cable
- Wrist Strap
- User Manual (this document)



Figure 1: Sndway SW-1000A device, carrying pouch, USB cable, and user manual.

4. Product Overview

The Sndway SW-1000A is a versatile laser rangefinder capable of measuring distance, speed, and angle. It features a compact design and a 7x magnification eyepiece.

4.1 Device Components

1. Objective Lens: Transmits and receives laser signals.
2. Eyepiece: For viewing through the device.
3. Power/Measure Button: Powers on the device and initiates measurements.
4. Mode Button: Switches between measurement modes.
5. Charging Port: USB port for battery charging.
6. Battery Indicator: LED light indicating charging status or battery level.



Figure 2: Side view with Power and Mode buttons.



Figure 3: Eyepiece and USB charging port.



Figure 4: Objective lenses for laser emission and reception.

5. Setup

5.1 Charging the Battery

The device is powered by a built-in 750mAh Li-ion polymer battery. Before first use, fully charge the battery.

1. Locate the USB charging port on the side of the device (refer to Figure 3).
2. Connect the provided USB charging cable to the device and to a standard USB power adapter (not included) or a computer's USB port.
3. The battery indicator LED will illuminate during charging and change color or turn off when fully charged.

5.2 Powering On/Off

- To power on: Press the **Power/Measure** button (refer to Figure 2). The display will activate.
- To power off: The device will automatically power off after a period of inactivity to conserve battery. Alternatively, press and hold the **Power/Measure** button for a few seconds.

5.3 Adjusting Diopter

Rotate the eyepiece to adjust the diopter for clear viewing of the internal display and target. This ensures optimal focus for your vision.

6. Operating Instructions

The SW-1000A offers multiple measurement modes. Press the **Mode** button to cycle through the available functions.

6.1 Unit Selection

The device supports measurement units in Meters (M) and Yards (Y). To switch units, press and hold the **Mode** button for approximately 3 seconds while the device is powered on. The unit displayed will change.

6.2 Distance Measurement

1. Ensure the device is in Distance Measurement mode (indicated on the internal display).
2. Aim the objective lens at the target.
3. Press the **Power/Measure** button once. The measured distance will be displayed.

6.3 Speed Measurement

1. Switch to Speed Measurement mode using the **Mode** button.
2. Aim at a moving target.
3. Press and hold the **Power/Measure** button. Follow the target with the crosshairs. The device will continuously measure and display the target's speed.

6.4 Angle Measurement

In Angle Measurement mode, the device can measure the angle of inclination relative to the horizontal plane.

1. Select Angle Measurement mode.
2. Aim at the target.
3. Press the **Power/Measure** button. The angle will be displayed.

6.5 Height Measurement (Vertical Height)

This mode calculates the vertical height of an object based on two distance measurements and an angle.

1. Switch to Height Measurement mode.
2. Aim at the base of the object and press the **Power/Measure** button.

3. Aim at the top of the object and press the**Power/Measure** button again.
4. The calculated height will be displayed.

7. Maintenance

7.1 Cleaning

- Use a soft, clean cloth to wipe the device body.
- For lenses, use a lens cleaning cloth and solution specifically designed for optical surfaces. Avoid abrasive materials.

7.2 Storage

- Store the device in its protective carrying pouch when not in use.
- Keep in a cool, dry place, away from direct sunlight and extreme temperatures.
- If storing for extended periods, ensure the battery is partially charged (not fully depleted or fully charged) and recharge periodically.

8. Troubleshooting

Problem	Possible Cause	Solution
Device does not power on.	Low or depleted battery.	Charge the battery using the provided USB cable.
Inaccurate measurements.	Obstruction in laser path, unstable aiming, or target too far/close.	Ensure clear line of sight. Hold the device steady. Check target distance against specifications.
Display is blurry.	Diopter not adjusted correctly.	Rotate the eyepiece to adjust the diopter for clear focus.
Cannot switch modes.	Button not pressed correctly or device malfunction.	Ensure a firm press on the Mode button. If issue persists, contact support.

9. Specifications

Feature	Detail
Model Number	SW-1000A
Measurement Functions	Distance, Speed, Angle, Height
Maximum Measuring Distance	1000 meters (3-1000M)
Measuring Accuracy	±1.0 meter
Speed Measure Accuracy	±5 Km/h
Angle Range	-90° to +90°
Magnification	7X
Unit Selection	Meters (M), Yards (Y)

Feature	Detail
Wave Length	905nm
Objective Lens Diameter	25mm
Eyepiece Aperture	16mm
Adjustable Diopter Range	±3 diopter
Operating Temperature	-20°C to +50°C
Field of View (FOV)	7°
Power Supply	750mAh Li-ion polymer battery (3.7V)
Product Dimensions	104mm x 72mm x 41mm
Product Weight	185g
Material	Metal / Alloy Steel

10. Warranty Information

Sndway products are manufactured to high-quality standards. For specific warranty terms and conditions, please refer to the warranty card included with your product or contact Sndway customer support. Keep your purchase receipt as proof of purchase.

11. Customer Support

If you encounter any issues or have questions regarding your Sndway SW-1000A, please contact Sndway customer support. Contact details can typically be found on the official Sndway website or on the product packaging.

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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

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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