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SNDWAY SW-1000A

SNDWAY Laser Rangefinder User Manual

Model: SW-1000A (Applicable to 600A, 1000A, and 1500A variants)

1. Overview

The SNDWAY Laser Rangefinder is a portable optical instrument combining telescope and laser ranging capabilities. It is designed for clear observation and precise distance measurement of stationary or slow-moving objects within a specified range. This device offers high accuracy, rapid distance measurement, low power consumption, and automatic power-off for efficient operation. Its compact size and light weight make it highly portable.

The instrument utilizes a low-power laser, ensuring eye safety. It can measure distances to any target without requiring pairing. It is widely used in various applications including engineering mapping, power line inspection (with scanning function for small distant targets like wires), forestry surveys, construction design, network planning, and communications maintenance. It serves as an effective tool for improving outdoor work efficiency and accurately measuring target distances.

2. Safety Precautions

- **Laser Safety:** Do not look directly into the laser emission aperture. Avoid pointing the laser at reflective surfaces or other people's eyes. This device uses a Class 1 laser, which is safe under normal operating conditions, but direct exposure should be avoided.
- **Battery Safety:** The device contains an internal rechargeable Li-ion battery. Do not attempt to replace the battery yourself. Do not expose the device to extreme heat or dispose of it in fire. Dispose of the device and battery according to local regulations.
- **Environmental Conditions:** While the device is water-resistant (IP54), avoid prolonged exposure to heavy rain or submersion in water. Operate and store the device within specified temperature ranges to prevent damage.
- **Handling:** Handle the device with care. Avoid dropping or subjecting it to strong impacts, which may affect its accuracy and functionality.

3. Package Contents

Upon opening the package, please verify that all the following items are included:

- SNDWAY Laser Rangefinder Unit
- Protective Pouch/Case
- USB Charging Cable
- Wrist Strap
- User Manual (this document)
- Certification Card (may vary by region)



Image: Contents typically included in the SNDWAY Laser Rangefinder package.

4. Product Components

Familiarize yourself with the main components of your SNDWAY Laser Rangefinder. While specific button placement may vary slightly between models, the core functions remain consistent.



Image: Side view of the SNDWAY Laser Rangefinder, highlighting the USB port and control buttons.

1. **Laser Emission Aperture:** Located at the front of the device, where the laser beam exits.
2. **Laser Receiving Lens:** Also at the front, adjacent to the emission aperture, for collecting the reflected laser.
3. **Power & Start Button:** Typically located on the top or side, used to power on/off and initiate measurements.
4. **Mode/Unit Switching Key:** Usually near the power button, for cycling through measurement modes and changing units.
5. **Observation Eyepiece:** Located at the rear, for viewing the target and internal display.
6. **Focusing Ring:** Surrounding the eyepiece, used to adjust the clarity of the view.
7. **USB Charging Port:** Often located on the side, for connecting the charging cable.
8. **Charging Indicator Light:** A small LED near the charging port, indicating battery charging status.

5. Setup

1. **Initial Charging:** Before first use, fully charge the device. Connect the supplied USB charging cable to the USB

Charging Port on the device and the other end to a standard USB power adapter (not included) or a computer USB port. The Charging Indicator Light will illuminate (e.g., red) during charging and change color (e.g., green) when fully charged.

2. **Powering On:** Press and hold the Power & Start Button for a few seconds to turn on the device. The internal display will illuminate.
3. **Adjusting Focus:** Look through the Observation Eyepiece. Rotate the Focusing Ring until the reticle and the target appear clear and sharp.

6. Operating Instructions

6.1 Basic Measurement

1. Power on the device as described in the Setup section.
2. Look through the eyepiece and aim the crosshairs at your desired target.
3. Press the Power & Start Button briefly. The laser will emit, and the measured distance will be displayed on the internal LCD screen within the eyepiece.
4. The device will automatically power off after a period of inactivity to conserve battery.

6.2 Mode Selection

The SNDWAY Laser Rangefinder typically features multiple measurement modes. Press the Mode/Unit Switching Key to cycle through available modes.

- **Range Mode:** This is the standard mode for measuring linear distance to a target. The display will show the distance in your selected unit (e.g., meters or yards).
- **Speed Measure Mode:** In this mode, the device can measure the speed of a moving object. Aim at the moving object and follow the on-screen instructions. The measured speed will be displayed.

6.3 Unit Switching

While in a measurement mode, a long press of the Mode/Unit Switching Key may switch between measurement units (e.g., meters (M) and yards (Y)). Refer to the on-screen indicators for the current unit.

7. Maintenance

- **Cleaning:** Use a soft, clean cloth to wipe the exterior of the device. For lenses, use a lens cleaning cloth and solution specifically designed for optical instruments. Do not use abrasive materials or harsh chemicals.
- **Storage:** When not in use, store the rangefinder in its protective pouch 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) to prolong battery life.
- **Battery Care:** Recharge the internal battery regularly, even if the device is not frequently used, to maintain battery health. Avoid completely draining the battery before recharging.

8. Troubleshooting

Problem	Possible Cause / Solution
No Power	Ensure the device is charged. Press and hold the Power & Start Button for a few seconds.
Inaccurate Readings	Ensure the target is within the measurement range (5-1500m). Check for obstructions between the device and the target. Ensure the lens is clean and focus is properly adjusted. Environmental factors like fog or heavy rain can affect accuracy.

Problem	Possible Cause / Solution
Display Not Clear	Adjust the Focusing Ring until the display is sharp. Ensure the eyepiece is clean.
Laser Not Emitting	Ensure the device is powered on. Check battery level. If the issue persists, contact customer support.

9. Specifications

Characteristic	Detail
Model	SW-1000A (also available in 600A, 1500A variants)
Measurement Range	5-1000 meters (for 1000A model)
Dimensions	104 x 76.5 x 41 mm
Battery Type	Li-ion Polymer Battery, 3.7V, 750mAh (Internal, Rechargeable)
Water Resistance Level	Water Resistant (IP54)
Measurement Modes	Range Mode, Speed Measure Mode
Laser Class	Class 1 (Eye Safe)
Date First Available	August 1, 2018
Manufacturer	SNDWAY

10. Warranty and Support

Warranty Information: This product comes with a standard manufacturer's warranty. Please refer to the certification card or contact your point of purchase for specific warranty terms and duration.

Customer Support: For technical assistance, troubleshooting beyond this manual, or warranty claims, please contact SNDWAY customer support through their official website or the retailer from whom you purchased the device. Please have your model number and purchase date ready.

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.

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Details

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