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SNDWAY SW-1000A

SNDWAY Laser Rangefinder User Manual

Models: 600A, 1000A, 1500A

1. Product Overview

The SNDWAY Laser Rangefinder is a portable optical instrument combining telescope and laser ranging capabilities. It is designed for accurately measuring distances to stationary or slow-moving objects within a specified range.

Key features include high accuracy, fast distance measurement, low power consumption, and automatic power-off. The instrument utilizes a small, eye-safe laser and is compact and lightweight for easy portability.

This device is widely used in various applications such as engineering mapping, power line inspection (including scanning measurement for small distant targets like wires), forestry surveys, construction design, and communication maintenance, significantly improving outdoor work efficiency.



Figure 1: SNDWAY Laser Rangefinder SW-1000A. This image shows the main unit with its black and orange casing, displaying the brand and model number.

2. Package Contents

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

- SNDWAY Laser Rangefinder Unit
- Carrying Case
- USB Charging Cable
- Wrist Strap
- Certification Card / User Manual (this document)



Figure 2: Contents of the SNDWAY Laser Rangefinder package. Shown are the rangefinder unit, a black carrying case, a USB charging cable, a black wrist strap, and a white certification card.

3. Product Components

Familiarize yourself with the different parts of your SNDWAY Laser Rangefinder:



Figure 3: A detailed view of the SNDWAY Laser Rangefinder. This image provides a visual reference for the device's various features and ports.

- **Laser Emission Aperture:** Located at the front of the device, this is where the laser beam is emitted.
- **Laser Receiving Lens:** Also at the front, this lens collects the reflected laser beam.
- **Observation Eyepiece:** The viewing port at the rear of the device.
- **Rotation-type Focusing Ring:** An adjustable ring around the eyepiece for focusing the view.
- **Power & Start Button:** Typically located on the top or side, used for powering on/off and initiating measurements.
- **Mode/Unit Switching Key:** A button to cycle through measurement modes and change units.

- **USB Charging Port:** Located on the side or bottom, used for charging the internal battery.
- **Charging Indicator Light:** A small LED near the charging port that indicates battery charging status.

4. Setup

4.1 Charging the Device

Before first use, ensure the rangefinder is fully charged. Connect the supplied USB charging cable to the USB Charging Port on the device and the other end to a standard USB power source (e.g., computer USB port, wall adapter). The Charging Indicator Light will indicate the charging status. Once fully charged, the light may change color or turn off.

4.2 Powering On/Off

To power on the device, press the Power & Start Button. The display will illuminate. To power off, press and hold the Power & Start Button for a few seconds, or the device will automatically power off after a period of inactivity to conserve battery.

4.3 Adjusting Focus

Look through the Observation Eyepiece. If the view is blurry, rotate the Rotation-type Focusing Ring until the image and the internal display are clear and sharp.

5. Operating Instructions

5.1 Selecting Measurement Mode

After powering on the device, press the Mode/Unit Switching Key to cycle through the available measurement modes. The rangefinder typically offers:

- **Range Mode:** Measures the linear distance to a target.
- **Speed Measure:** Measures the speed of a moving target.

5.2 Taking a Measurement

1. Power on the device and select the desired measurement mode.
2. Look through the Observation Eyepiece and aim the crosshairs at your target.
3. Press the Power & Start Button once to activate the laser and take a measurement.
4. The measured distance or speed will be displayed on the internal LCD.
5. For continuous measurement (scan mode), press and hold the Power & Start Button while sweeping across multiple targets. Release the button to stop.

5.3 Changing Units

In some models, the Mode/Unit Switching Key can also be used to toggle between measurement units (e.g., meters (M) and yards (Y)). Refer to the on-screen indicators for the current unit.

6. Specifications

Feature	Specification
Brand	SNDWAY
Model (Example)	SW-1000A (also available in 600A, 1500A variants)
Measurement Range	5-1500m (depending on model)
Modes	Range Mode, Speed Measure
Battery Type	Li-ion Polymer Battery
Battery Rating	3.7V --- 750mAh
Dimensions (approx.)	104mm x 76.5mm x 41mm

Note: Specifications may vary slightly between different models (e.g., 600A, 1000A, 1500A).

7. Maintenance

7.1 Cleaning

- **Lenses:** Use a soft, clean optical cloth to gently wipe the laser emission and receiving lenses. Do not use abrasive materials or harsh chemicals.
- **Body:** Wipe the body of the rangefinder with a soft, damp cloth. Avoid using solvents or strong detergents.

7.2 Storage

When not in use, store the rangefinder in its protective carrying case in a cool, dry place, away from direct sunlight and extreme temperatures. Ensure the battery is partially charged (not fully depleted or fully charged for long-term storage) to prolong battery life.

8. Troubleshooting

Problem	Possible Cause	Solution
Device does not power on.	Low or depleted battery.	Charge the device using the supplied USB cable.
Inaccurate or no measurement.	Target too far/close, poor target reflectivity, obstructed laser path, dirty lenses.	Ensure target is within range. Aim at a reflective surface. Clean lenses. Ensure clear line of sight.
Display is blurry.	Eyepiece not focused.	Adjust the Rotation-type Focusing ring until the display is clear.

Problem	Possible Cause	Solution
Device shuts off unexpectedly.	Automatic power-off feature, low battery.	This is normal behavior to save battery. If frequent, charge the device.

9. Safety Information

Please read and understand all safety warnings before using this product.

- **Laser Safety:** This device uses a Class 1 laser product, which is considered eye-safe under normal operating conditions. However, do not stare directly into the laser emission aperture or aim the laser at other people's eyes.
- **Battery Safety:** Do not attempt to disassemble, puncture, or expose the battery to extreme temperatures or fire. Dispose of batteries according to local regulations.
- **Environmental:** Do not expose the device to rain, moisture, or extreme temperatures. Avoid dropping or subjecting the device to severe impact.
- **Children:** Keep the device out of reach of children.

10. Warranty and Support

For warranty information and technical support, please refer to the documentation provided with your purchase or contact the seller/manufacturer directly. Keep your purchase receipt as proof of purchase.

Manufacturer: SNDWAY

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