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SNDWAY SW-T60

SNDWAY SW-T60 Digital Laser Rangefinder User Manual

Model: SW-T60

INTRODUCTION

Welcome to the user manual for your SNDWAY SW-T60 Digital Laser Rangefinder. This device is designed for precise and efficient measurement of distances, areas, and volumes. Please read this manual carefully before using the device to ensure safe and optimal operation and to understand all features.

SAFETY INFORMATION

Laser Safety

The SNDWAY SW-T60 emits a Class II laser. Observe the following precautions:

- Do not stare directly into the laser beam.
- Do not aim the laser beam at people or animals.
- Avoid direct eye exposure.
- Do not disassemble or modify the device.

General Safety

- Keep the device out of reach of children.
- Do not use the device in explosive environments.
- Protect the device from moisture and direct sunlight.
- Use only specified batteries (2 x 1.5V AAA).

PRODUCT OVERVIEW

Device Components

The following image illustrates the main components of the SNDWAY SW-T60.



A front view of the SNDWAY SW-T60 Digital Laser Rangefinder, showing the display screen, "READ" button, and other function buttons. A bubble level is visible on the right side.



A close-up view highlighting the integrated bubble level on the side of the SNDWAY SW-T60, used for ensuring horizontal alignment during measurements.

Display Layout

The LCD provides various measurement readings and status indicators. Key elements include:

- **Power Supply Indicator:** Shows battery level.
- **Record/Memory Indicator:** Indicates data storage status.

- **Laser On Indicator:** Confirms laser is active.
- **Maximum/Minimum Value Display:** Shows highest and lowest values in continuous measurement.
- **Length Measurement Display:** For single distance measurements.
- **Area, Volume, and Pythagorean Measurement Indicators:** Icons for selected measurement modes.
- **Continuous Measuring Indicator:** Active during tracking mode.
- **Major Display:** The primary measurement result.
- **Auxiliary Display:** Secondary measurement results or previous values.

Keyboard Functions

The device features several buttons for different operations:

- **READ:** Activates the laser, initiates a measurement, or confirms a selection.
- **+:** Used for adding measurements.
- **-:** Used for subtracting measurements.
- **Area/Volume/Pythagorean:** Cycles through Area, Volume, and various Pythagorean measurement modes.
- **Save/Memory:** Saves current measurement data or recalls stored data.
- **Reference Point/Unit Switch:** Toggles the measurement reference point (front/rear edge) or switches between measurement units (m/in/ft).
- **OFF/CLEAR:** Turns off the device or clears the current measurement/selection.

SETUP

Battery Installation

The SNDWAY SW-T60 requires two 1.5V AAA batteries for operation.

1. Locate the battery compartment cover on the back of the device.
2. Slide or open the cover to access the battery slots.
3. Insert two AAA batteries, ensuring that the positive (+) and negative (-) terminals match the indicators inside the compartment.
4. Close the battery compartment cover securely.

OPERATING INSTRUCTIONS

Turning On/Off

- To turn on the device, press the **READ** button.
- To turn off, press and hold the **OFF/CLEAR** button. The device will automatically shut off after 150 seconds of inactivity to conserve battery.

Basic Distance Measurement

1. Press the **READ** button once to activate the laser.
2. Aim the laser dot at the target point.
3. Press the **READ** button again to take a measurement. The result will be displayed on the main screen.



The SNDWAY SW-T60 shown alongside a reflective plate. A reflective plate can be used to improve measurement accuracy and range, especially in bright conditions or on non-reflective surfaces.

Unit Switching

To switch between measurement units (meters, inches, feet), press the **Reference Point/Unit Switch** button briefly.

Reference Point Setting

The device can measure from the front or rear edge. Press and hold the **Reference Point/Unit Switch** button to toggle the reference point. An icon on the display will indicate the current reference point (e.g., an arrow pointing from the top or bottom of the device icon).

Continuous Measurement (Tracking)

This mode allows for dynamic measurement, displaying minimum and maximum distances as you move the device.

1. From standby, press and hold the **READ** button.
2. The device will continuously measure and display the current, minimum, and maximum distances.
3. Press **READ** again to stop continuous measurement.

Area Measurement

To measure the area of a rectangular space:



A close-up of the device's display showing the icon for area measurement, which is a square.

1. Press the **Area/Volume/Pythagorean** button once until the area icon (square) appears on the display.
2. Measure the first side (length) by pressing **READ**.
3. Measure the second side (width) by pressing **READ**.
4. The device will automatically calculate and display the area.

Volume Measurement

To measure the volume of a space:

DISPLAY/KEYBOARD

● Display

- Power Supply

- Record

- Laser on

- Maximum

- Length

- Area, Volume and Pythagorean

- Minimum

- Continuous Measuring

- Major Display

- Auxiliary Display

● Keyboard

- Turn on/Measuring

- Addition

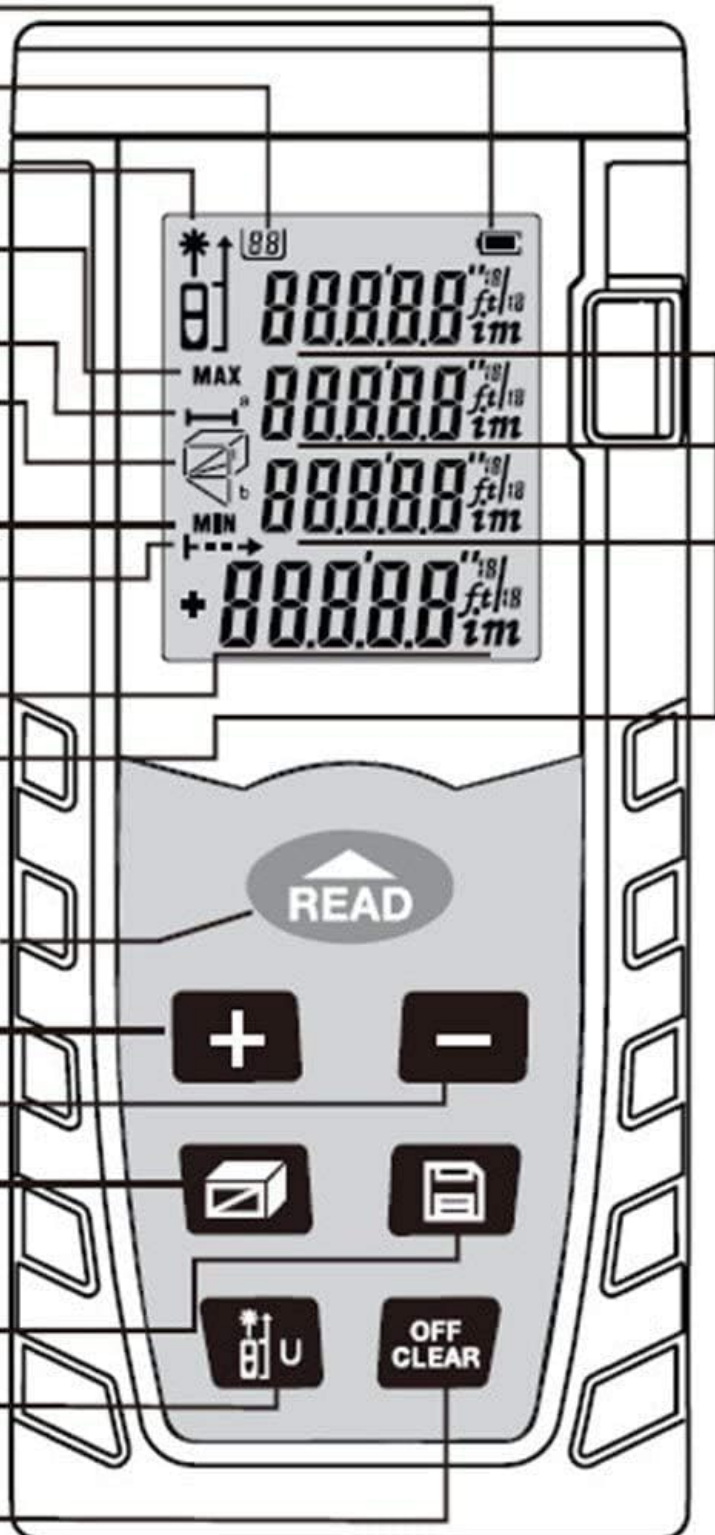
- Subtration

- Area/Volume/Pythagorean Measuring

- Save

- Reference Point/Unit Switch

- Turn off/Remove



A close-up of the device's display showing the icon for volume measurement, which is a cube.

1. Press the **Area/Volume/Pythagorean** button twice until the volume icon (cube) appears.
2. Measure the length by pressing **READ**.
3. Measure the width by pressing **READ**.

4. Measure the height by pressing **READ**.
5. The device will automatically calculate and display the volume.

Pythagorean Measurement

The device supports various Pythagorean modes for indirect measurements, useful for calculating heights or distances that cannot be measured directly.

Technology specifications:

ITEM	Specifications			
	40m	50m	60m	70m
Working Range	40m	50m	60m	70m
Distance measurement precision	±2mm			
Measurement unit options	m/in/ft			
Continuous measurement function	yes			
Outdoor target reflection board	no			
Area measurement function	yes			
Volume measurement function	yes			
Pythagorean proposition measurement function	Full mode			
Add and subtract measurement function	yes			
Min/Max value	yes			
Max storage	30 units			
Automatic backlight	yes			
Buttons/Keys sound	yes			
Laser level	II			
Laser type	635nm,<1mW			
Automatically cut off laser	20s			
Automatic shutdown	150S			
Storage temperature	-20°C-60°C			
Working temperature	0°C-40°C			
Storage humidity	RH85%			
Battery	1.5V 2*AAA			
Battery life	8000 times for single measurement			
Weight (including battery)	110g			
Dimension	112*50*25mm			

Note: Use a target plate to increase the measurement range during daylight or if the target has poor reflection properties.

A close-up of the device's display showing the icon for Pythagorean measurement, which is a triangle.

1. Press the **Area/Volume/Pythagorean** button repeatedly until the desired Pythagorean mode icon appears (e.g., single Pythagorean for height, double Pythagorean for partial height).
2. Follow the on-screen prompts to measure the required sides (e.g., hypotenuse, base).
3. The device will calculate and display the unknown side.

Addition and Subtraction

To add or subtract measurements:

1. Take the first measurement.
2. Press the **+** button for addition or the **-** button for subtraction.
3. Take the second measurement.
4. The result will be displayed. You can continue adding or subtracting further measurements.

Data Storage and Recall

The device can store up to 30 sets of measurement data.

1. After a measurement, press the **Save/Memory** button to save the result.
2. To recall stored data, press and hold the **Save/Memory** button. Use the **+** and **-** buttons to navigate through stored records.

MAINTENANCE

- Clean the device with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- Ensure the laser lens is clean for accurate measurements.
- Remove batteries if the device will not be used for an extended period.
- Store the device in a dry, dust-free environment.
- The device has an **IP54** rating, meaning it is protected against dust and splashing water, but it is not waterproof.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not turn on	Low or dead batteries, incorrect battery polarity	Replace batteries, check polarity
Inaccurate measurements	Dirty laser lens, unstable measuring surface, target too reflective/dark	Clean lens, ensure stable position, use a reflective plate for difficult targets
Laser not visible	Bright ambient light	Use in lower light conditions, use a target plate
Error message on display	Measurement out of range, internal error	Re-measure within range, restart device

If problems persist, please contact customer support for further assistance.

SPECIFICATIONS

Item	Specification
Working Range	0.05 - 60m
Distance Measurement Precision	±2mm
Measurement Unit Options	m/in/ft
Continuous Measurement Function	Yes
Outdoor Target Reflection Board	No (recommended for daylight/poor targets)
Area Measurement Function	Yes
Volume Measurement Function	Yes
Pythagorean Measurement Function	Full mode
Add and Subtract Measurement Function	Yes
Min/Max Value	Yes
Max Storage	30 units
Automatic Backlight	Yes
Buttons/Keys Sound	Yes
Laser Level	II
Laser Type	635nm, <1mW
Automatically Cut Off Laser	20s
Automatic Shutdown	150s
Storage Temperature	-20°C - 60°C
Working Temperature	0°C - 40°C
Storage Humidity	RH85%
Battery	1.5V * 2 AAA
Battery Life	8000 times for single measurement
Weight (including battery)	110g
Dimension	112 x 50 x 25mm
International Protection Rating	IP54

Note: A target plate is recommended to increase the measurement range during daylight or if the target

has poor reflection properties.

WARRANTY AND SUPPORT

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