

Sola 71020101

Sola Vector 40 Laser Distance Meter User Manual

Model: 71020101

1. INTRODUCTION

Thank you for choosing the Sola Vector 40 Laser Distance Meter. This device is designed for precise and rapid distance measurements, area calculations, and volume calculations. Its compact design and user-friendly interface make it an ideal tool for professionals and DIY enthusiasts in construction, interior design, and other fields requiring accurate measurements.

Please read this manual carefully before using the device to ensure safe and optimal operation. Keep this manual for future reference.

2. SAFETY INFORMATION

WARNING: Laser Radiation

This device emits Class 2 laser radiation. Do not stare into the laser beam. Do not direct the laser beam at people or animals. Avoid direct eye exposure. Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

- Always operate the device in a safe manner.
- Do not attempt to modify or disassemble the device.
- Keep the device out of reach of children.
- Do not use the device in explosive environments or near flammable liquids or gases.
- Protect the device from moisture and direct sunlight.

3. PRODUCT OVERVIEW

SOLA  [®]



13.077 m

VECTOR 40



MEAS



CLEAR



Figure 3.1: Front view of the Sola Vector 40 Laser Distance Meter, showing the display, measurement button, function buttons, and clear/power button.

Components:

- Laser Distance Meter (Sola Vector 40)
- Belt Clip (integrated or attachable)
- User Manual (this document)

Key Features:

- Bright 4-line display
- Easy to use interface
- Compact and durable design
- Multiple measurement functions

4. SETUP

4.1 Battery Installation

The Sola Vector 40 requires 2 AAA batteries (not included). To install the batteries:

1. Locate the battery compartment cover on the back of the device.
2. Slide or unclip the cover to open the compartment.
3. Insert two AAA batteries, ensuring correct polarity (+ and -) as indicated inside the compartment.
4. Close the battery compartment cover securely.



Figure 4.1: Illustration of AAA batteries and the battery compartment cover, ready for installation.

Note: Remove batteries if the device will not be used for an extended period to prevent leakage.

5. OPERATING INSTRUCTIONS

5.1 Power On/Off

- To power on: Press the **POWER/CLEAR** button (*red circle with power symbol*). The display will light up.
- To power off: Press and hold the **POWER/CLEAR** button for a few seconds, or the device will automatically shut off after a period of inactivity to conserve battery life.

5.2 Basic Measurement

1. Power on the device.
2. Point the laser beam at the target surface.
3. Press the **MEAS** button (*red button with laser symbol*) once to activate the laser.
4. Press the **MEAS** button again to take a measurement. The measured distance will be displayed on the screen.

5.3 Changing Measurement Reference Point

The device typically measures from its base. Refer to the on-screen icon to confirm the current reference point (front or rear of the device).

- Press the **Reference Point** button (*button with two arrows pointing to different ends of a line*) to toggle between measuring from the front edge or the rear edge of the device.

5.4 Clearing Measurements

- To clear the last measurement or exit a function, press the **POWER/CLEAR** button briefly.

6. MEASUREMENT MODES

The Sola Vector 40 offers various measurement modes for different applications. Use the **Function** button (*button with stacked rectangles*) to cycle through the available modes.

6.1 Single Distance Measurement

This is the default mode for measuring a single distance between two points.

6.2 Area Measurement

To calculate the area of a rectangular space:

1. Select the Area measurement mode.
2. Measure the length by pressing **MEAS**.
3. Measure the width by pressing **MEAS**.
4. The device will automatically calculate and display the area.

6.3 Volume Measurement

To calculate the volume of a space:

1. Select the Volume measurement mode.
2. Measure the length by pressing **MEAS**.
3. Measure the width by pressing **MEAS**.
4. Measure the height by pressing **MEAS**.
5. The device will automatically calculate and display the volume.

6.4 Continuous Measurement (Tracking)

This mode allows for continuous measurement as you move the device, displaying the current distance in real-time. Useful for finding minimum/maximum distances or setting out points.

1. Select the Continuous Measurement mode.
2. The device will continuously measure and update the distance on the display.
3. Press **MEAS** again to stop continuous measurement.

7. MAINTENANCE AND CARE

- **Cleaning:** Use a soft, damp cloth to clean the device. Do not use abrasive cleaners or solvents. Clean the laser lens gently with a soft, lint-free cloth.
- **Storage:** Store the device in a dry, cool place, away from direct sunlight and extreme temperatures.

- **Batteries:** Remove batteries if the device is not used for extended periods to prevent corrosion.
- **Avoid Impact:** Protect the device from drops and strong impacts, which can affect its accuracy and functionality.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	Low or dead batteries; incorrect battery polarity.	Replace batteries; ensure correct polarity.
Laser does not activate.	Device not powered on; faulty laser.	Ensure device is on; contact support if problem persists.
Inaccurate measurements.	Unstable surface; obstruction; dirty lens; extreme temperature.	Ensure stable measurement; clear path; clean lens; use within operating temperature.
Display is dim or blank.	Low batteries.	Replace batteries.

9. SPECIFICATIONS

- **Model:** Sola Vector 40
- **Part Number:** 71020101
- **Measurement Range:** Up to 40 meters (approx. 131 feet)
- **Measurement Accuracy:** Typically ± 2.0 mm
- **Laser Class:** Class 2
- **Laser Type:** 635 nm, < 1 mW
- **Units of Measurement:** Meters (m), Feet (ft), Inches (in)
- **Display:** 4-line backlit LCD
- **Battery Type:** 2 x AAA (not included)
- **Automatic Laser Shut-off:** Approx. 90 seconds
- **Automatic Device Shut-off:** Approx. 180 seconds
- **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:** Approximately 10 x 12 x 10 cm
- **Weight:** Approximately 250 grams (without batteries)
- **IP Rating:** IP54 (Dust protected and splash proof)

10. WARRANTY AND SUPPORT

Sola products are manufactured with high-quality materials and undergo strict quality control. This product comes with a standard manufacturer's warranty against defects in materials and workmanship under normal use.

For warranty claims, technical support, or service inquiries, please contact your local Sola distributor or visit the official Sola website for contact information.

Please retain your proof of purchase for warranty purposes.

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Documents - Sola – 71020101

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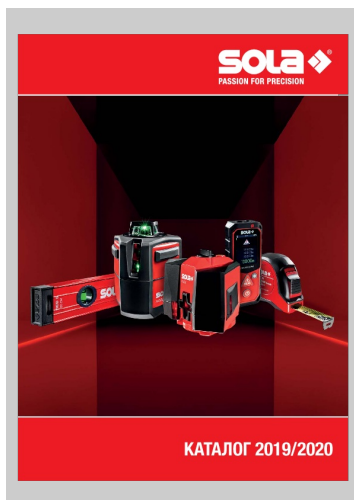
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