REVASRI N40-PLUS

REVASRI Professional Laser Distance Meter 70M

Model: N40-PLUS

1. Introduction

The REVASRI Professional Laser Distance Meter N40-PLUS is a versatile and precise tool designed for quick and accurate distance measurements. It is ideal for a wide range of indoor applications, including renovation, interior design, and construction. This manual provides detailed instructions on how to set up, operate, and maintain your device to ensure optimal performance and longevity.

2. Safety Information

WARNING: Laser Radiation

- Do not stare directly into the laser beam.
- Do not aim the laser beam at people or animals.
- Avoid direct eye exposure to the laser.
- This device is a Class 2 laser product.
- Keep the device out of reach of children.
- Do not attempt to modify or disassemble the device.
- Use only the specified charging cable and power source.

3. Package Contents

- REVASRI Professional Laser Distance Meter (N40-PLUS)
- USB Type-C Charging Cable
- User Manual

4. Product Overview

Familiarize yourself with the components of your laser distance meter.

Figure 4.1: Front view of the REVASRI N40-PLUS Laser Distance Meter, showing the display, control buttons, and USB Type-C charging port, alongside the included USB-A to USB-C and USB-C to USB-C cables.

Figure 4.2: Close-up of the HD reverse display screen, designed for clearer, brighter, and easier reading in various lighting conditions.

Figure 4.3: The integrated physical spirit level (horizontal bubbles) on the device, which aids in achieving more accurate auxiliary measurements by ensuring the device is level.

4.1. Device Layout

- **Display Screen:** Shows measurement results, mode indicators, battery status, and other relevant information.
- **MEAS/ON Button:** Activates the laser and initiates measurements. Also serves as the power-on button.
- **Function/Unit Button:** Cycles through measurement modes (single, area, volume, Pythagorean, continuous) and unit settings (M/In/Ft).
- **+/- Button:** Used for addition/subtraction functions and potentially other settings.
- **Clear/Off Button:** Clears the current measurement or turns off the device.
- **Reference Point Button:** Switches the measurement reference point between the front and rear of the device.
- **USB Type-C Port:** For charging the internal battery.
- **Laser Aperture:** Emits the laser beam for measurement.
- **Receiver Lens:** Receives the reflected laser beam.
- **Physical Spirit Level:** Provides visual indication for horizontal alignment.

5. Setup

5.1. Charging the Device

Before first use, fully charge the device. The REVASRI N40-PLUS features a built-in Lithium-Ion battery and charges via a USB Type-C port.

1. Connect the provided USB Type-C cable to the charging port on the device.
2. Connect the other end of the USB cable to a standard USB power adapter (e.g., phone charger, computer USB port, power bank).
3. The battery indicator on the display will show the charging status. A full charge allows for approximately 8,000-10,000 measurements.

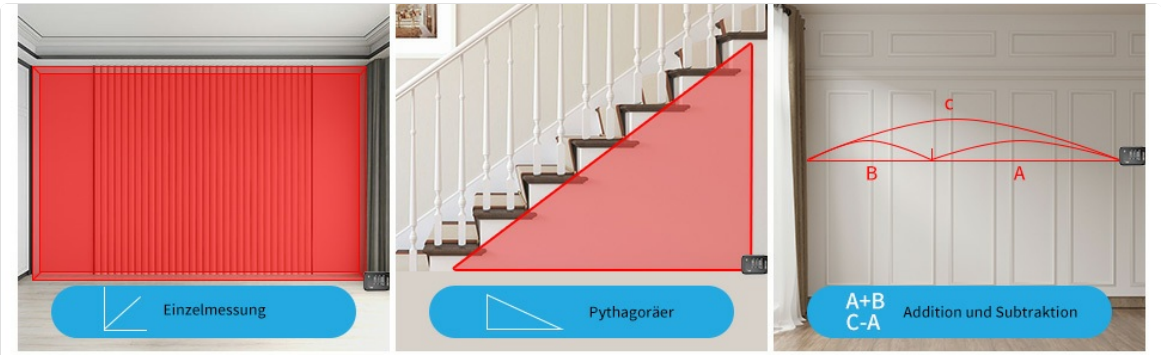

Figure 5.1: Illustration of the USB Type-C charging port and connection with the charging cables.

5.2. Power On/Off

- **To Power On:** Press the **MEAS/ON** button. The display will light up.
- **To Power Off:** Press and hold the **Clear/Off** button for a few seconds. The device will also automatically power off after a period of inactivity to save battery.

5.3. Changing Measurement Units

To switch between meters (M), inches (In), and feet (Ft):

- While the device is on, short press the **Function/Unit** button until your desired unit is displayed.

5.4. Setting Reference Point

The device can measure from its front or rear edge. The default is usually the rear edge.

Figure 5.2: Diagram illustrating how to set the baseline for measurement from different positions of the device (front or rear) to meet various measurement requirements.

- Press the **Reference Point** button to toggle between the front and rear reference points. An icon on the display will indicate the active reference point.

6. Operating Instructions

The REVASRI N40-PLUS offers multiple measurement modes for various applications.

Figure 6.1: Overview of available measurement models including single measurement, area, volume, continuous measurement, Pythagorean measurement, data storage, HD screen, and horizontal bubbles.

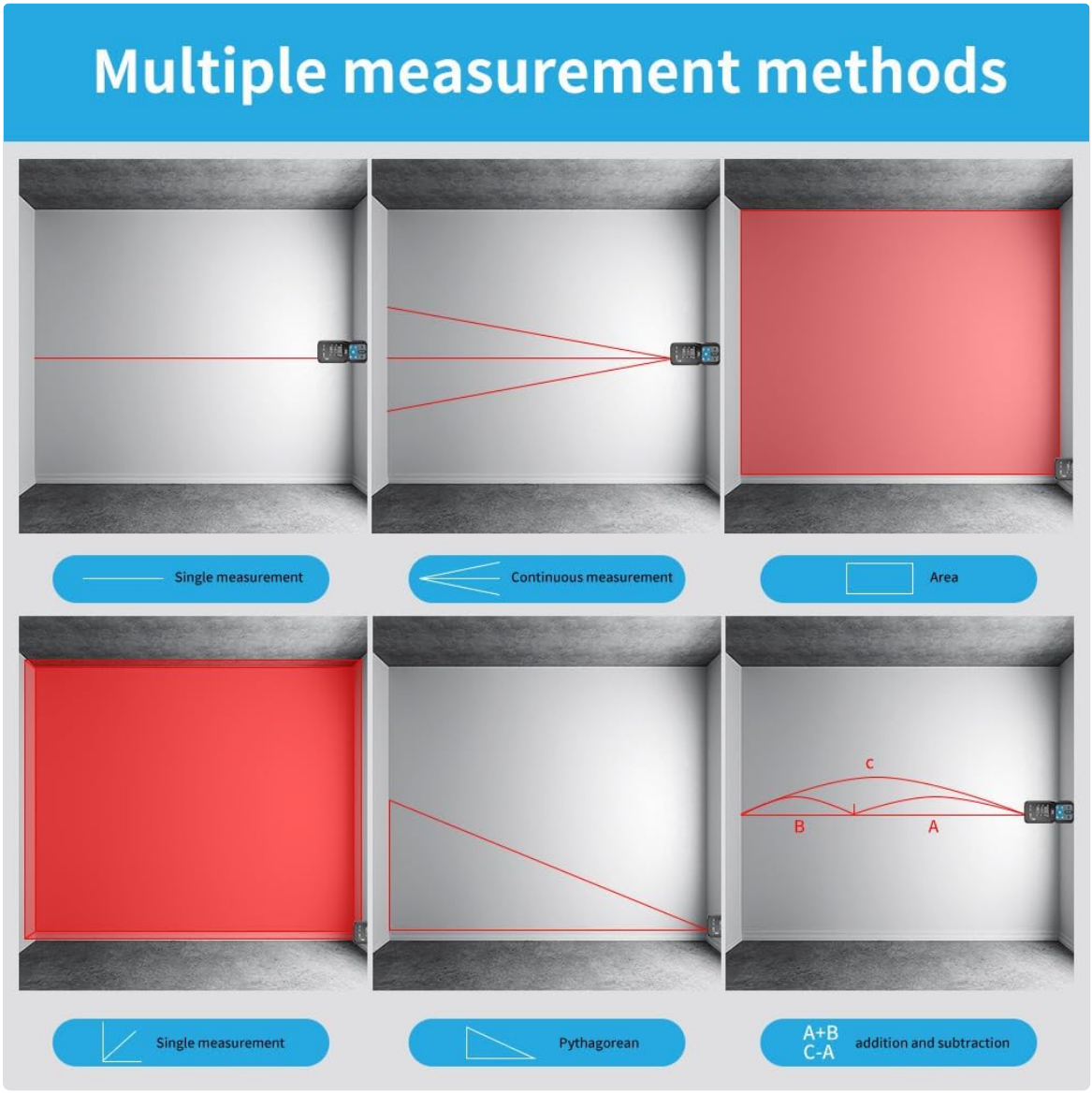

Figure 6.2: Visual examples of various measurement methods: Single measurement, Continuous measurement, Area measurement, and Pythagorean measurement.

6.1. Single Distance Measurement

This is the basic mode for measuring the linear distance between two points.

1. Ensure the device is powered on.
2. Point the laser at the target.
3. Press the **MEAS/ON** button once. The laser will activate.
4. Press the **MEAS/ON** button again to take the measurement. The result will be displayed instantly.

6.2. Continuous Measurement (Tracking)

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

1. Press the **Function/Unit** button repeatedly until the continuous measurement icon (often a series of lines or a tracking symbol) appears on the display.
2. Press the **MEAS/ON** button to start continuous measurement.
3. Move the device slowly towards or away from the target. The display will update in real-time with Max, Min, and current values.

4. Press the **MEAS/ON** button again to stop continuous measurement.

6.3. Area Measurement

To calculate the area of a rectangular space (Length x Width).

1. Press the **Function/Unit** button until the area measurement icon (a square) appears.
2. Take the first measurement (e.g., length) by pointing the laser and pressing**MEAS/ON**.
3. Take the second measurement (e.g., width) by pointing the laser and pressing**MEAS/ON**.
4. The device will automatically calculate and display the area.

6.4. Volume Measurement

To calculate the volume of a space (Length x Width x Height).

1. Press the **Function/Unit** button until the volume measurement icon (a cube) appears.
2. Take the first measurement (length).
3. Take the second measurement (width).
4. Take the third measurement (height).
5. The device will automatically calculate and display the volume.

6.5. Pythagorean Measurement

This mode allows indirect measurement of heights or distances using the Pythagorean theorem ($a^2 + b^2 = c^2$).

Figure 6.3: Examples of single Pythagorean measurement (A+B->C), adding Pythagorean measurements (A+B+C->D), and subtracting Pythagorean measurements (A+B+C->D).

1. Press the **Function/Unit** button until the Pythagorean measurement icon (a triangle) appears. There might be different Pythagorean modes (e.g., two-point, three-point). Select the appropriate one.
2. Follow the on-screen prompts to take the required measurements (e.g., hypotenuse, base).
3. The device will calculate and display the unknown side.

6.6. Data Storage

The device can store up to 50 sets of measurement data.

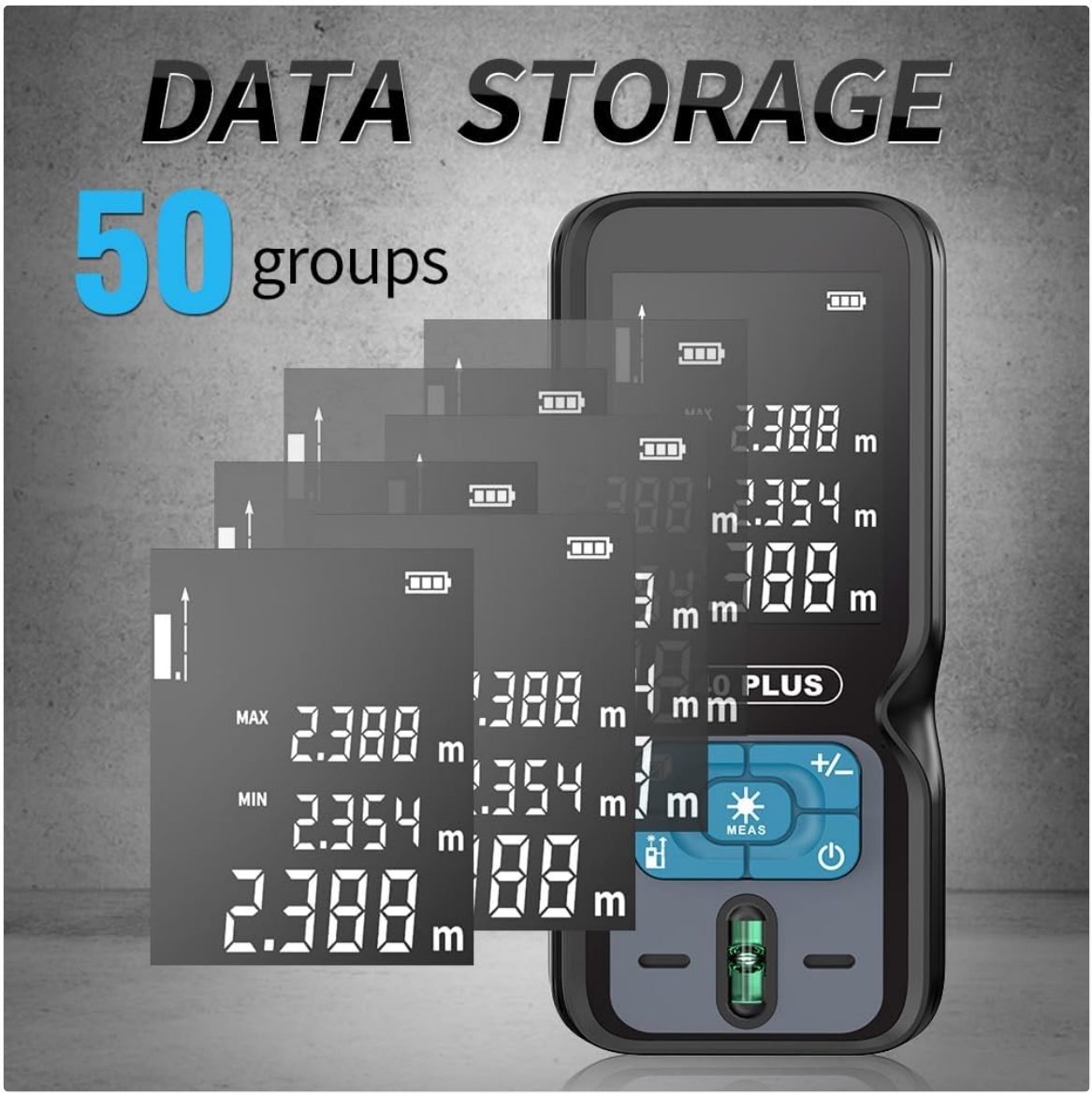

Figure 6.4: Illustration of the data storage feature, showing multiple measurement records stored on the device.

- After a measurement, the result is automatically saved.
- To view stored data, press the **Data Storage** button (if available, or cycle through modes until data history is shown).
- Use the arrow buttons (if available) to navigate through the stored records.

7. Maintenance

- **Cleaning:** Use a soft, damp cloth to clean the device. Do not use abrasive cleaners or solvents. Pay special attention to the laser aperture and receiver lens, keeping them free of dust and debris.
- **Storage:** Store the device in a cool, dry place, away from direct sunlight and extreme temperatures. If storing for extended periods, ensure the battery is partially charged (around 50%) to preserve battery life.
- **Avoid Impact:** While durable, avoid dropping the device or subjecting it to strong impacts, which can affect its accuracy.

8. Troubleshooting

Problem	Possible Cause	Solution
Cannot get a reading / Display shows error.	Measurement range too short (minimum 5 yards/meters). Measuring through glass or highly reflective surfaces. Target is outside the allowable range. Signal too weak (Error 157).	Ensure target is within the minimum and maximum range. Avoid measuring through transparent or highly reflective materials. Use a reflective target plate if the surface is difficult to measure or the distance is long.
Inaccurate measurements.	Environmental factors (rain, fog, strong light, heavy dust). Device not held steady. Incorrect reference point selected.	Perform measurements in stable environmental conditions. Hold the device firmly or place it on a stable surface. Verify the correct reference point (front/rear) is selected.
Laser point difficult to see.	Strong ambient light (e.g., direct sunlight).	Use the device in lower light conditions if possible. Consider using a laser target plate or a specialized laser viewing glasses (not included).
Device does not turn on.	Battery is depleted.	Charge the device using the provided USB Type-C cable.

9. Specifications

Feature	Specification
Model Number	N40-PLUS
Measurement Range	Up to 70 meters
Accuracy	±0.2mm
Measurement Speed	0.25 seconds
Measurement Units	Meters (M), Inches (In), Feet (Ft)
Measurement Modes	Single, Continuous, Area, Volume, Pythagorean
Data Storage	50 sets

Feature	Specification
Battery Type	Lithium-Ion
Charging Port	USB Type-C
Material	Plastic
Weight	120 grams
Dimensions	11.5 x 11.5 x 2.5 cm
Laser Class	Class 2

10. Warranty and Support

REVASRI is committed to providing high-quality products and excellent customer service. Our products are manufactured with strict quality control standards. If you encounter any issues or have questions regarding your REVASRI Professional Laser Distance Meter, please do not hesitate to contact our customer support team. As a factory-integrated company, we have strong after-sales capabilities and are ready to assist you.
Please refer to your purchase documentation for specific warranty terms and contact information.