CSD-CA202500416-4452

RONGUAN Laser Measure 132ft (40M) User Manual

High-Precision Infrared Measuring Tool

1. Introduction

Thank you for choosing the RONGUAN Laser Measure. This portable digital measuring tool is designed for high-precision distance measurement, offering a range of up to 40 meters (132 feet) with millimeter-level accuracy. It is ideal for various applications including house decoration, mapping, and general construction tasks. This manual provides essential information on the product's features, setup, operation, maintenance, and troubleshooting to ensure safe and effective use.

2. Safety Information

Please read and understand all safety instructions before using the device. Failure to follow these instructions may result in laser radiation exposure, electric shock, fire, or serious injury.

- **Laser Radiation:** This product is a Class II laser product. Do not stare into the laser beam or direct it at other people. Avoid direct eye exposure.
- **Power Source:** Use only the specified Type-C charging cable and a compatible power adapter (not included) for charging.
- **Environment:** Do not operate the device in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust. Keep the device dry and away from extreme temperatures.
- **Maintenance:** Do not attempt to disassemble or modify the device. Refer all servicing to qualified service personnel.
- **Children:** Keep the device out of reach of children.

3. Product Overview

The RONGUAN Laser Measure is a compact and robust device designed for ease of use and accuracy. Familiarize yourself with its components:

Figure 3.1: Front view of the RONGUAN Laser Measure. It features a clear digital display at the top, showing measurement readings and battery status. Below the display are four control buttons: a left arrow button, an 'OK' button in the center, a right arrow button, and a 'C/OFF' button at the bottom for clearing and powering off.

Figure 3.2: The RONGUAN Laser Measure is highlighted as a laser rangefinder and line thrower, emphasizing its dual functionality for both distance measurement and cross laser line projection.

3.1 Key Components:

- **Digital Display:** Shows measurement results, battery level, and mode indicators.
- **Laser Emitter/Receiver:** Located at the top of the device.
- **Control Buttons:**
  - **OK / Measure Button:** Initiates measurements and confirms selections.
  - **C/OFF Button:** Clears current measurement or powers off the device.
  - **+/- / Unit Button:** Switches between measurement units (e.g., meters, feet) and adjusts settings.
  - **Mode Button:** Cycles through different measurement modes.
- **Type-C Charging Port:** Located on the side for convenient charging.

4. Setup

4.1 Initial Charging

Before first use, fully charge the device. The RONGUAN Laser Measure has a built-in 200mAh battery.

1. Locate the Type-C charging port on the side of the device.
2. Connect the provided Type-C charging cable to the device.
3. Connect the other end of the cable to a standard USB power adapter (e.g., phone charger, computer USB port).
4. The battery indicator on the display will show charging status. Once fully charged, the indicator will change.

4.2 Powering On/Off

- **To Power On:** Press the **OK** button briefly. The display will light up.
- **To Power Off:** Press and hold the **C/OFF** button for a few seconds until the display turns off. The device will also automatically power off after a period of inactivity to conserve battery.

5. Operating Instructions

The RONGUAN Laser Measure offers multiple measurement modes to suit various needs. The device features a fast response time, completing measurements in 0.3 seconds.

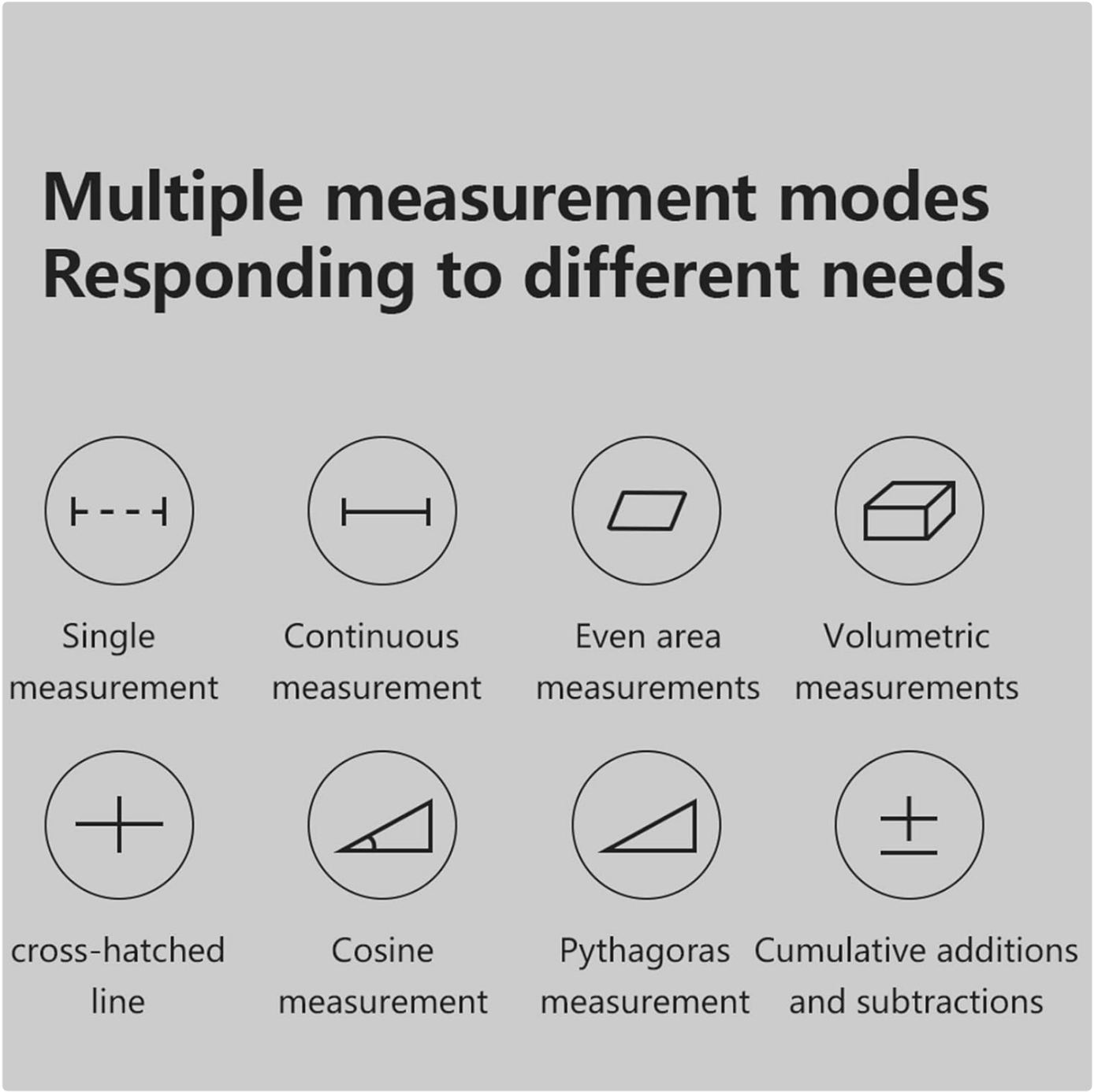


Figure 5.1: Visual representation of the multiple measurement modes supported by the device, including single measurement, continuous measurement, even area measurements, volumetric measurements, cross-hatched line, cosine measurement, Pythagoras measurement, and cumulative additions and subtractions.

5.1 Basic Measurement (Single Measurement)

1. Power on the device. It will typically default to single measurement mode.
2. Point the laser at the target surface.
3. Press the **OK** button briefly. The measurement will be displayed instantly.

5.2 Continuous Measurement

This mode allows for dynamic measurement as you move the device, displaying real-time distance updates.

1. Press the **Mode** button until the continuous measurement icon appears on the display.
2. Press the **OK** button to start continuous measurement.
3. Move the device; the distance will update continuously.

4. Press **OK** again to stop.

5.3 Cross Laser Projection

The device can project a cross laser line, useful for alignment and leveling tasks. This feature has an effective distance of up to 8 meters.

Figure 5.2: The device projecting a clear red cross laser line, demonstrating its utility in aiding complex tasks such as pointing, marking, mounting, and fixing objects on a surface.

1. Press the **Mode** button until the cross laser icon appears.
2. The device will project a horizontal and vertical laser line.
3. To turn off the cross laser, press the **Mode** button again or the **C/OFF** button.

5.4 Area and Volume Measurement

These modes allow for quick calculation of areas (length x width) and volumes (length x width x height).

1. Press the **Mode** button to select Area or Volume mode. The display will prompt for the first dimension.

2. Measure the first dimension (e.g., length) by pointing the laser and pressing **OK**.
3. The display will then prompt for the next dimension (e.g., width). Measure it.
4. For Volume, measure the third dimension (height).
5. The calculated area or volume will be displayed.

5.5 Pythagorean Theorem Measurement

Use this mode to calculate indirect distances (e.g., height of a building) using two or three measurements.

1. Press the **Mode** button to select the desired Pythagorean mode (e.g., two-point or three-point).
2. Follow the on-screen prompts to take the necessary measurements (e.g., hypotenuse, base).
3. The device will automatically calculate and display the unknown side.

5.6 Data Storage and Voice Announcements

The system automatically stores up to 50 sets of historical data, allowing for easy review without manual recording. The device also features intimate voice announcements for convenience.

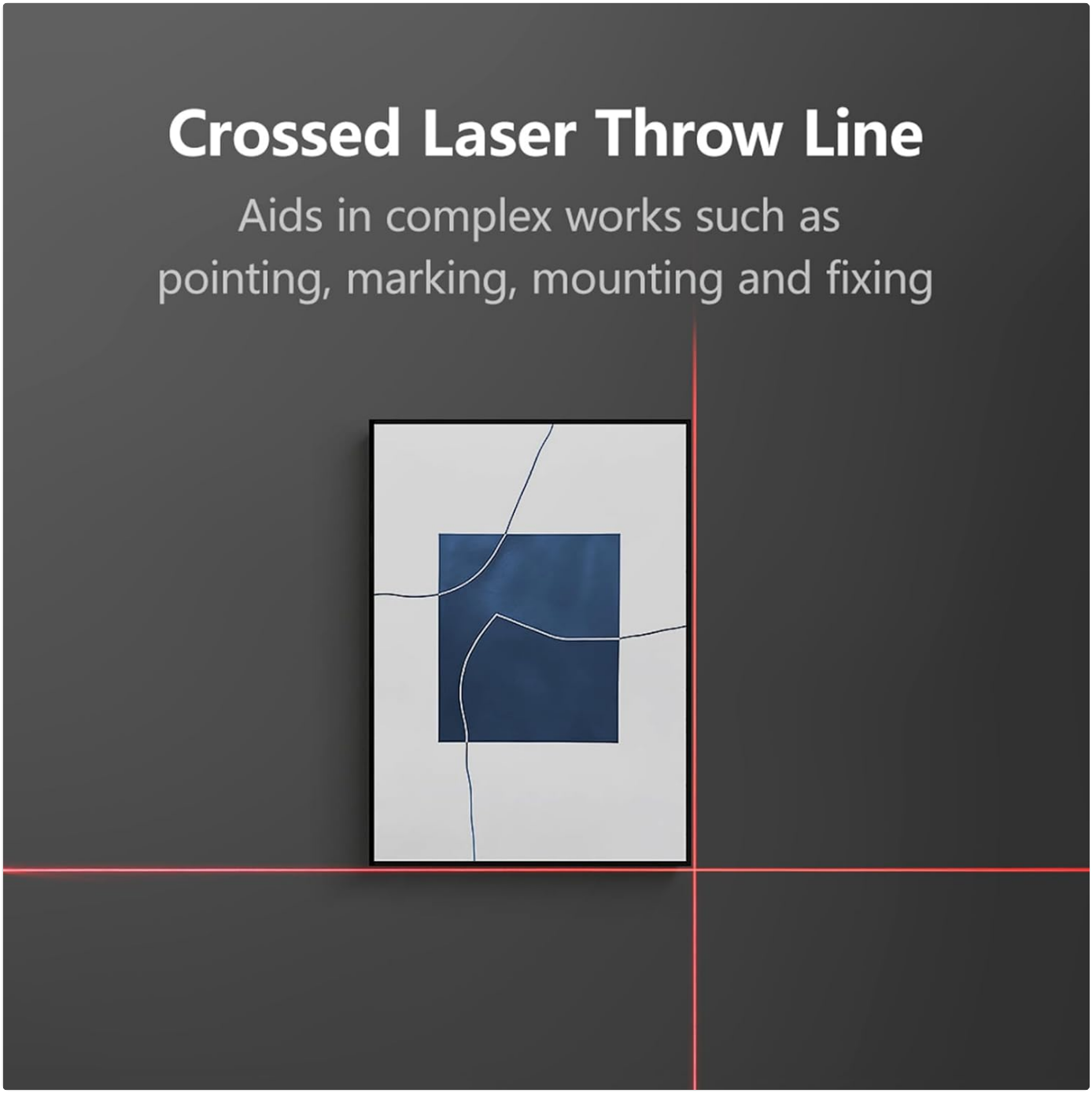


Figure 5.3: The RONGUAN Laser Measure, illustrating its capabilities for voice announcements and automatic data storage, providing easy access to historical measurements.

- **Accessing History:** Use the arrow buttons to navigate through stored measurements.
- **Voice Announcements:** The device provides audible feedback for measurements and mode changes. This feature can typically be toggled on/off via settings or a dedicated button (refer to specific button functions on your device).

6. Maintenance

Proper maintenance ensures the longevity and accuracy of your RONGUAN Laser Measure.

- **Cleaning:** Use a soft, damp cloth to clean the device. Do not use abrasive cleaners or solvents. Pay special attention to the laser lens, keeping it free from dust and smudges.
- **Storage:** Store the device in a cool, dry place, away from direct sunlight and extreme temperatures. If storing for an extended period, ensure the battery is partially charged (around 50%) to prolong its lifespan.
- **Avoid Impact:** Protect the device from drops and impacts, which can affect its calibration and internal components.

7. Troubleshooting

If you encounter issues with your device, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Device does not power on.	Low battery; device malfunction.	Charge the device fully. If still unresponsive, contact support.
Inaccurate measurements.	Laser lens dirty; unstable surface; environmental factors (e.g., strong light).	Clean the laser lens. Ensure a stable measurement surface. Avoid measuring in direct sunlight or highly reflective surfaces.
Laser beam is weak or invisible.	Low battery; strong ambient light.	Charge the device. Measure in areas with less intense ambient light.
Display shows an error code.	Measurement out of range; internal error.	Ensure target is within 0.05-40m range. Restart the device. If error persists, contact support.

8. Specifications

Technical specifications for the RONGUAN Laser Measure:

Product parameters

Figure 8.1: The RONGUAN Laser Measure with its dimensions indicated: 100mm in height and 33mm in width.

Feature	Specification
Color	Black
Material	Aluminum alloy
Measuring Range	0.05 - 40 meters (132 feet)
Measuring Accuracy	± (2mm + 5*10^-5*D), where D is distance
Display Indexing	1mm
Laser Class	Class II
Laser Type	630-670nm, < 1mW

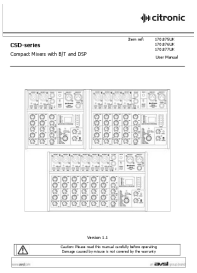
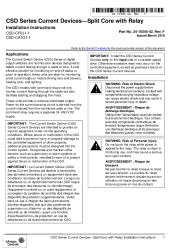
Feature	Specification
Battery Capacity	200mAh
Charge Type	Type-C
Product Size	100 x 33 x 20 mm
Product Weight	60g

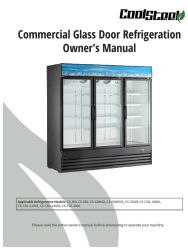
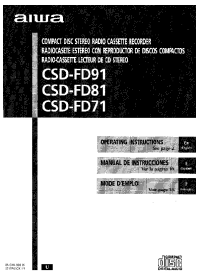
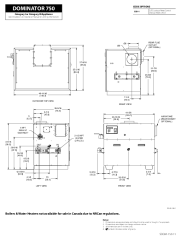
9. Warranty and Support

This product comes with a standard manufacturer's warranty. Please refer to the product packaging or purchase documentation for specific warranty terms and conditions.
For technical support, troubleshooting assistance, or warranty claims, please contact the retailer or manufacturer directly through the contact information provided at the point of purchase.

Model: CSD-CA202500416-4452

Related Documents - CSD-CA202500416-4452

	Citronic CSD-series Compact Mixers User Manual Explore the Citronic CSD-series compact mixers with Bluetooth and DSP. This user manual provides essential information on setup, operation, and features for professional audio applications.
	Johnson Controls CSD Series Split Core Current Device Installation Guide Installation and technical guide for Johnson Controls CSD Series split core current devices (CSD-CF0J1-1, CSD-CA1G1-1) with relay. Covers applications, wiring, calibration, troubleshooting, and specifications for industrial current monitoring.
	AIWA CSD-TD51, CSD-TD52, CSD-TD53 Compact Disc Radio Cassette Recorder Service Manual Comprehensive service manual for AIWA CSD-TD51, CSD-TD52, and CSD-TD53 Compact Disc Radio Cassette Recorders, including detailed electrical, mechanical, and accessories parts lists for repair and maintenance.

	[CoolSteel Commercial Glass Door Refrigeration Owner's Manual] This owner's manual provides essential information for the installation, operation, cleaning, troubleshooting, and maintenance of CoolSteel commercial glass door refrigerators. It covers general safety, maintenance safety, and warranty details.
	[AIWA CSD-FD91/FD81/FD71 Compact Disc Stereo Radio Cassette Recorder Operating Manual] Comprehensive operating instructions and specifications for the AIWA CSD-FD91, CSD-FD81, and CSD-FD71 Compact Disc Stereo Radio Cassette Recorders, covering safety, power, operation, and maintenance.
	[DOMINATOR 750 Boiler and Water Heater Technical Specifications and Dimensions] Detailed technical specifications, dimensions, ratings, and component information for the RBI DOMINATOR 750 Category I and Category III boiler and water heater, manufactured by A Division of Mestek, Inc.