CIGMAN CD-60

CIGMAN CD-60 Dual Laser Measuring Tool User Manual

Model: CD-60 | Brand: CIGMAN

1. INTRODUCTION

This user manual provides comprehensive instructions for the safe and effective operation of your CIGMAN CD-60 Dual Laser Measuring Tool. This device is designed for precise distance, area, and volume measurements in various environments, offering both bidirectional and unidirectional laser capabilities.

Key features include:

- Fast and Accurate Measurement: Up to 393ft (120m) with +/-1/8inch (3mm) precision.
- Multifunctional Measurement Modes: Distance, continuous, wall area, spatial volume, Pythagorean.
- Large Backlit LCD Display: Clear readability in various lighting conditions with screen lock and reverse functions.
- Electronic Angle Sensor: Assists in determining horizontal direction.
- Data Storage: Stores up to 100 sets of measurement data.
- Type-C Rechargeable Battery: Built-in 850 mAh Li-ion battery for extended use.
- Durable Construction: Aluminum alloy shell for drop, wear, and corrosion resistance.

Figure 1.1: CIGMAN CD-60 Dual Laser Measuring Tool

The CIGMAN CD-60 is a Class II laser product with an output of less than 1mW.

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.

2.1 Laser Safety

This device emits Class II laser radiation. Avoid direct eye exposure to the laser beam. Do not stare into the beam or view directly with optical instruments.

- Do not intentionally direct the laser beam at people or animals.
- Do not disassemble the device. Laser repairs should only be performed by authorized service personnel.
- Do not use the device in explosive atmospheres or near flammable materials.

2.2 General Safety

- Keep the device out of reach of children.
- Do not modify the device in any way.
- Use the device only for its intended purpose as described in this manual.
- Protect the device from extreme temperatures, moisture, and strong impacts.

- Avoid using the device in direct sunlight or in environments with strong electromagnetic interference, as this may affect accuracy.

3. PRODUCT OVERVIEW

3.1 Included Components

- CIGMAN CD-60 Dual Laser Measuring Tool
- User Manual
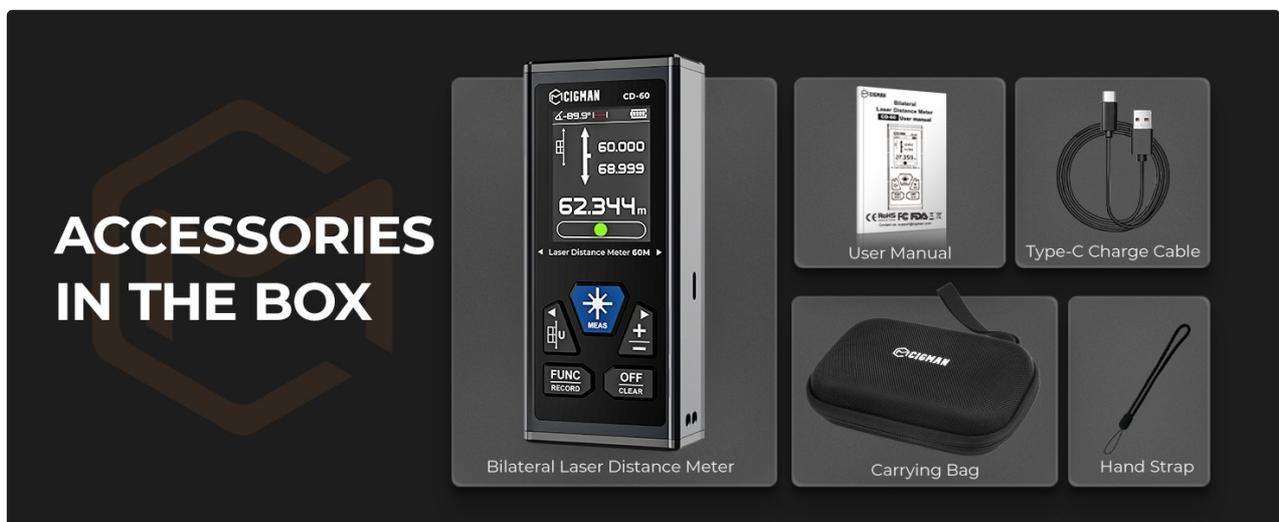- Type-C Charging Cable
- Carrying Bag
- Hand Strap

Figure 3.1: Accessories in the Box

3.2 Buttons and Display

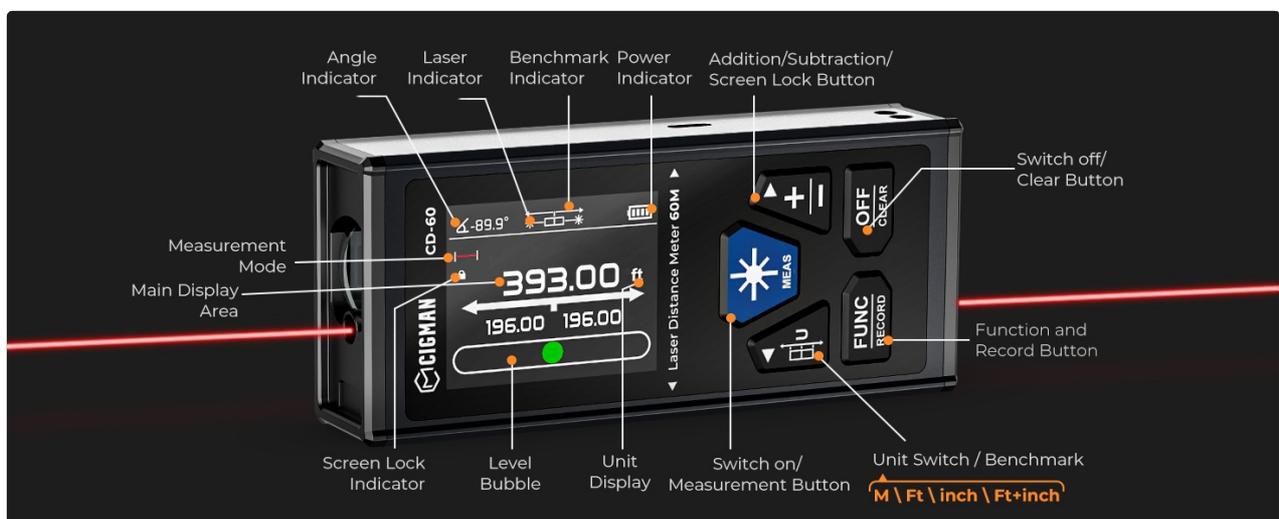Familiarize yourself with the device's interface:

Figure 3.2: Labeled Diagram of Buttons and Display

- **Angle Indicator:** Displays the current angle of the device.
- **Laser Indicator:** Shows which laser (front, rear, or both) is active.

- **Benchmark Indicator:** Indicates the measurement reference point (front, rear, or middle of the device).
- **Power Indicator:** Shows battery level.
- **Addition/Subtraction/Screen Lock Button:** Used for calculations and locking the screen orientation.
- **Switch off/Clear Button:** Powers off the device or clears the current measurement.
- **Measurement Mode:** Displays the active measurement function.
- **Main Display Area:** Shows the primary measurement result.
- **Level Bubble:** Digital bubble level for horizontal alignment.
- **Unit Display:** Shows the current unit of measurement (M/in/Ft).
- **Switch on/Measurement Button:** Powers on the device or initiates a measurement.
- **Unit Switch/Benchmark:** Toggles between measurement units and reference points.
- **Function and Record Button:** Selects measurement modes and records data.

4. SETUP

4.1 Charging the Device

The CIGMAN CD-60 is equipped with a built-in 850 mAh Li-ion rechargeable battery. Before first use, fully charge the device.

- Connect the provided Type-C charging cable to the device's Type-C port.
- Connect the other end of the cable to a standard USB power adapter (not included) or a computer USB port.
- The battery indicator on the display will show charging progress. A full charge takes approximately 4 hours and allows for about 8000 continuous measurements.
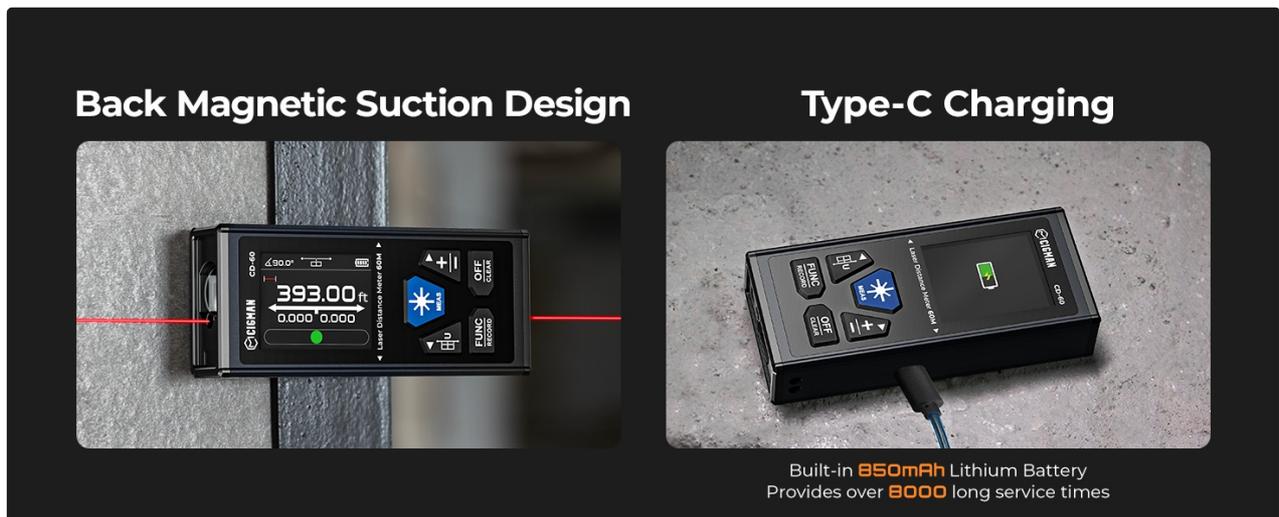

Figure 4.1: Type-C Charging Interface

4.2 Power On/Off and Unit Selection

- **Power On:** Press the **MEAS** button.
- **Power Off:** Press and hold the **OFF/CLEAR** button. The device will also automatically power off after a period of inactivity to save battery.
- **Unit Selection:** While the device is on, press the **Unit Switch/Benchmark** button to cycle through measurement units: Meters (M), Inches (in), and Feet (Ft).

5. OPERATING INSTRUCTIONS

5.1 Basic Measurement

The CD-60 supports both bidirectional and unidirectional measurement.

- **Bidirectional Measurement:** The device measures from both ends simultaneously, providing a total distance. This is ideal for measuring distances between two points without needing to move the device.
- **Unidirectional Measurement:** The device measures from one end (front or rear) to a target. Select the desired laser (front or rear) using the **Unit Switch**/**Benchmark** button.
- To take a measurement, aim the laser at the target and press the **MEAS** button. The result will be displayed on the screen.
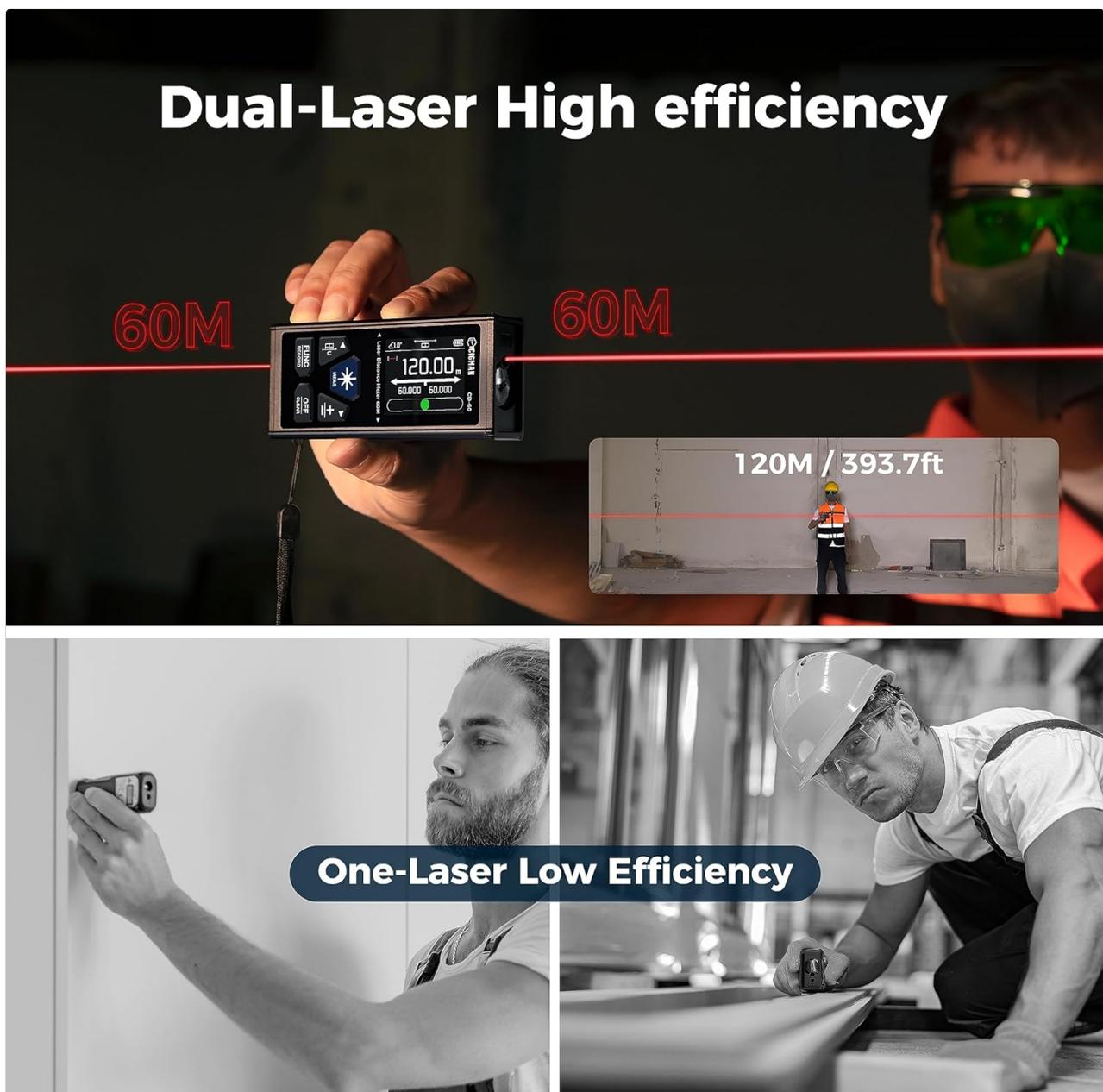

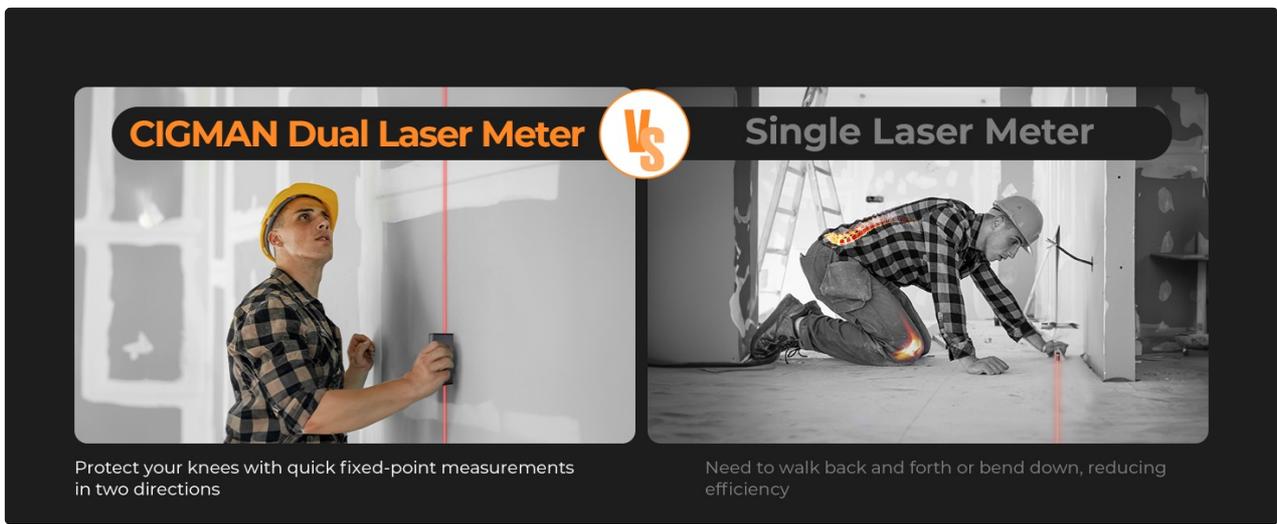Figure 5.1: Dual-Laser High Efficiency Measurement

Figure 5.2: Comparison of Dual vs. Single Laser Measurement

5.2 Measurement Modes

Press the **FUNC/RECORD** button to cycle through the various measurement modes.

- **Distance Length:** Standard single measurement.
- **Continuous Measurement:** Provides real-time distance updates as you move the device.
- **Wall Area:** Measures the area of a wall by taking height and length measurements.
- **Spatial Volume:** Calculates the volume of a space by measuring length, width, and height.
- **Pythagorean Measurement:** Utilizes the Pythagorean theorem to calculate indirect distances (e.g., height of a building). There are multiple Pythagorean modes (Pythagorean 1, 2, 3, 4) for different scenarios.
- **Angle Measurement:** Uses the electronic angle sensor to display the device's tilt angle.
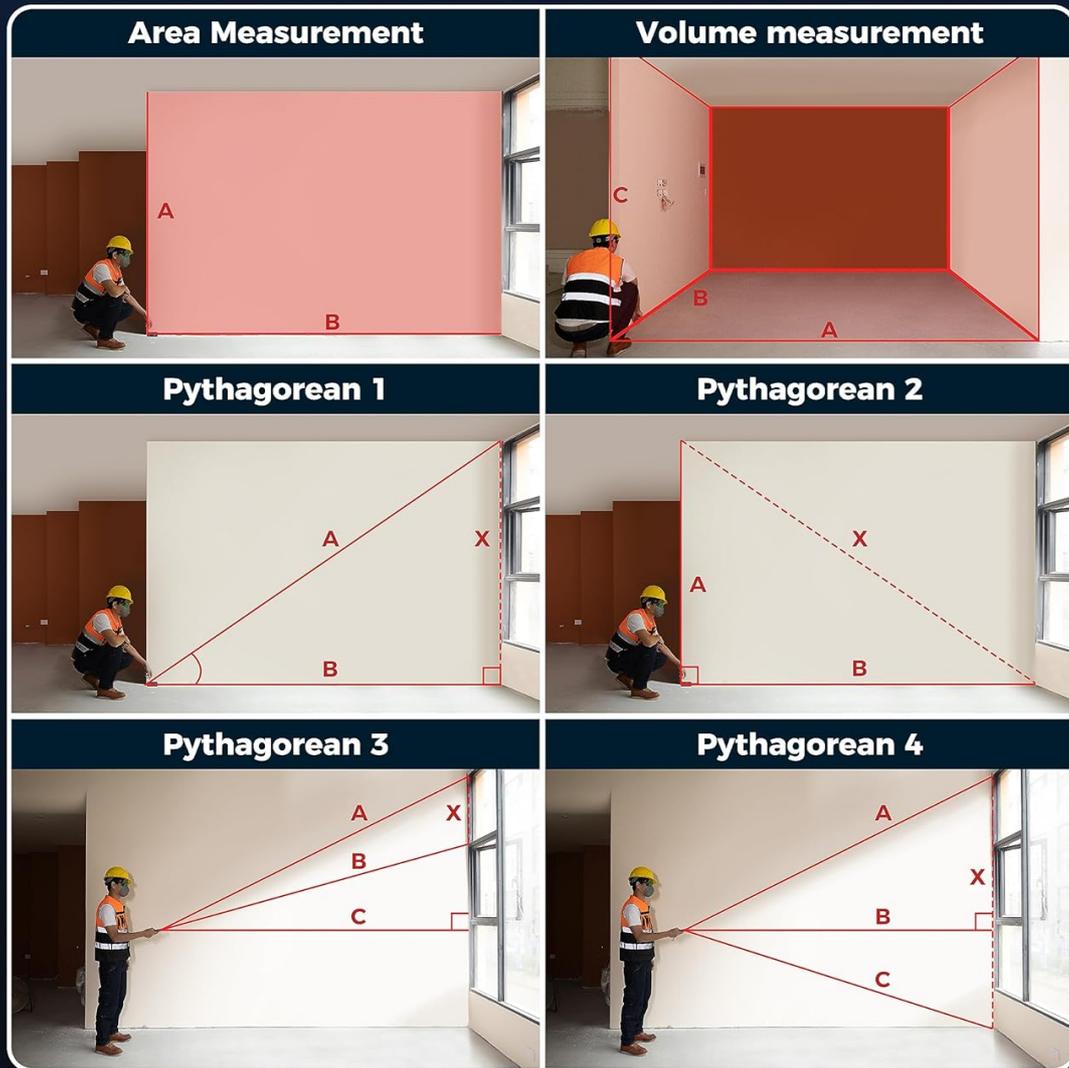- **Midpoint Search:** Helps locate the midpoint between two points.
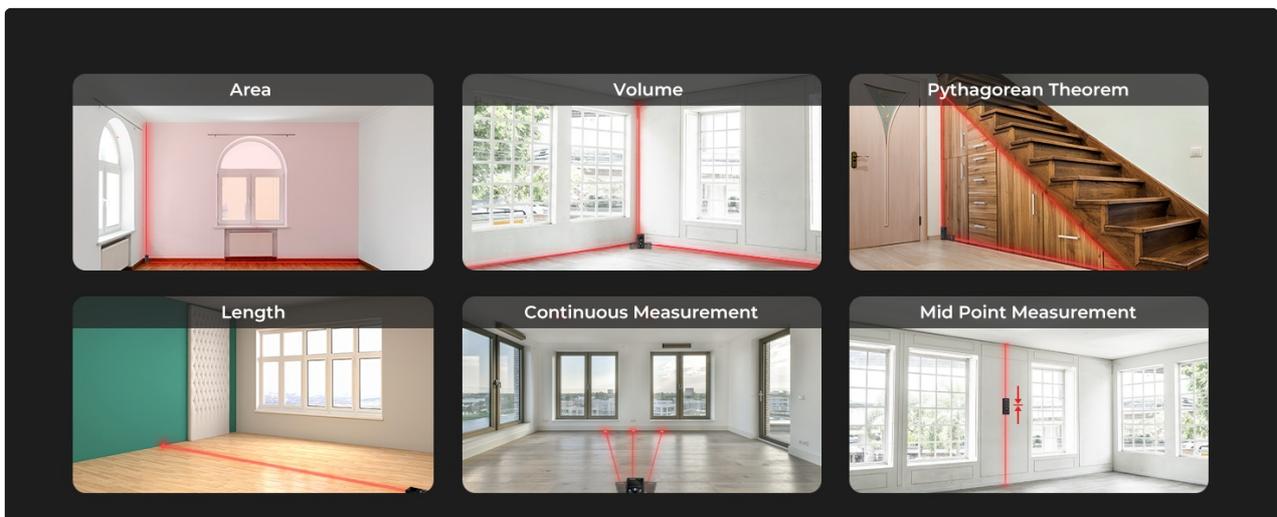
Figure 5.3: Data Storage and Measurement Modes

Figure 5.4: Overview of Measurement Modes

Figure 5.5: Advanced Measurement Modes

5.3 Electronic Angle Sensor and Level Bubble

The integrated electronic angle sensor and digital level bubble help ensure accurate horizontal and vertical alignment during measurements.

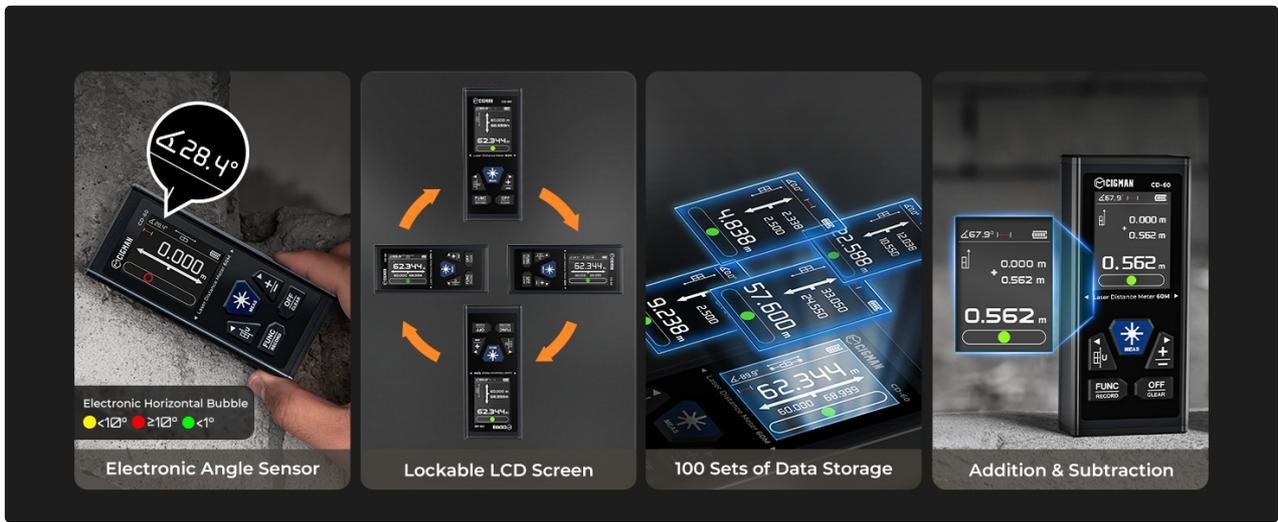Figure 5.6: Angle Display and Electronic Level

Figure 5.7: Electronic Angle Sensor and Data Features

5.4 Data Storage and Calculations

- The device can store up to 100 sets of measurement data. Press the **FUNC/RECORD** button to save a measurement.
- Use the **+/-** button for addition and subtraction of measurements.

5.5 Screen Lock and Rotation

The LCD display supports screen rotation and can be locked to a specific orientation for easier reading.

Figure 5.8: Rotating the Screen and Locking

5.6 Magnetic Attraction Function

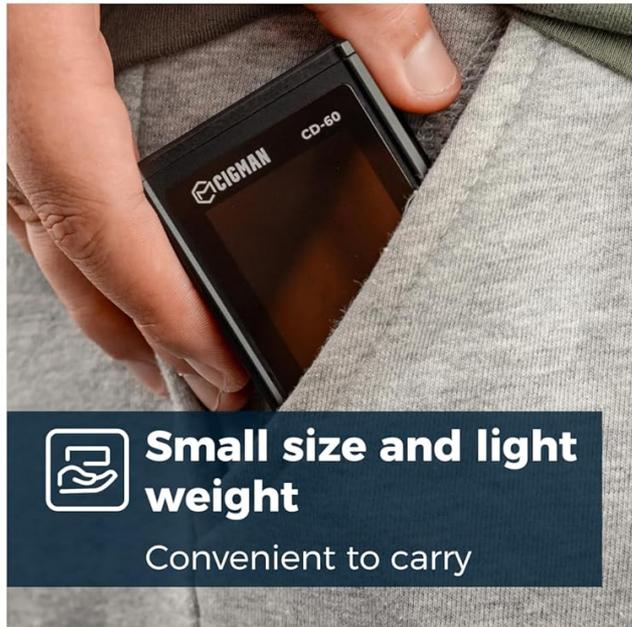The CD-60 features a magnetic base, allowing it to be securely attached to metal surfaces for stable measurements.

Figure 5.9: Magnetic Attraction Function and Aluminum Alloy Material

6. MAINTENANCE

- **Cleaning:** Use a soft, damp cloth to clean the device. Do not use abrasive cleaners or solvents. Ensure the laser lenses are clean and free of dust for accurate measurements.
- **Storage:** Store the device in its carrying bag in a cool, dry place when not in use. Avoid prolonged exposure to direct sunlight or extreme temperatures.
- **Battery Care:** To prolong battery life, avoid fully discharging the battery frequently. Charge the device regularly, even if not in constant use.

7. TROUBLESHOOTING

If you encounter issues with your CIGMAN CD-60, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Inaccurate Measurements	Dirty laser lenses, unstable surface, extreme temperatures, strong light interference.	Clean lenses with a soft cloth. Ensure a stable measurement surface. Operate within recommended temperature range. Avoid direct sunlight or strong light.
Device Not Powering On	Low battery.	Charge the device fully using the provided Type-C cable.
Screen Not Responding	Software glitch.	Try restarting the device. If the issue persists, contact customer support.
Error Message Displayed	Measurement outside range, environmental conditions.	Ensure target is within 393ft (120m). Check temperature conditions.

For persistent issues not covered here, please contact CIGMAN customer support.

8. SPECIFICATIONS

Feature	Detail
Brand	CIGMAN
Model Number	CD-60
Measuring Range	393ft (120M)
Accuracy	+/-1/8inch (3mm)
Laser Class	Class II (output <1mW)
Battery Type	850 mAh Lithium-Ion (Rechargeable)
Charging Interface	Type-C
Material	Aluminum Alloy
Item Weight	12.3 ounces
Product Dimensions	5.9"L x 4.6"W x 2"H
Water Resistance Level	Waterproof (IP54)
Data Storage	Up to 100 sets

9. WARRANTY AND SUPPORT

The CIGMAN CD-60 Dual Laser Measuring Tool comes with a 3-year warranty from the date of purchase. This warranty covers defects in materials and workmanship under normal use.

For warranty claims, technical support, or any questions regarding your device, please contact CIGMAN customer service through the official channels provided at the time of purchase or on the CIGMAN website.

Please retain your proof of purchase for warranty validation.

10. OFFICIAL PRODUCT VIDEO

Your browser does not support the video tag.

Video 10.1: CIGMAN Dual Distance Meter 393ft/120M Measurement Tool (Official Seller Video)

This video demonstrates the key features and usage of the CIGMAN CD-60 Dual Laser Measuring Tool, including its bidirectional measurement capabilities and various functions.
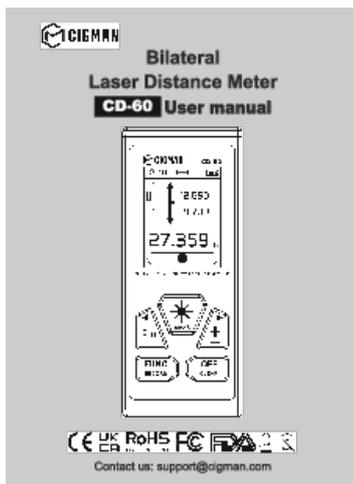
Related Documents - CD-60

	[CIGMAN CM-720SE Laser Level User Manual](#) User manual for the CIGMAN CM-720SE Laser Level. This guide covers safety, operation, product overview, specifications, and maintenance for the self-leveling laser tool with 2 x 360° green cross lines, suitable for construction, picture hanging, and decoration.
	[CIGMAN CM-701 Laser Level User Manual](#) Comprehensive user manual for the CIGMAN CM-701 Laser Level, covering safety notes, intended use, operation modes, specifications, troubleshooting, maintenance, and warranty information.
	[Cigman CLD-100 Laser Receiver for Construction Lasers - Operation and Specifications](#) User manual and technical specifications for the Cigman CLD-100 laser receiver, designed for use with construction lasers. Learn about its parts, how to operate it, and its key features.

	[CIGMAN CM-G02/G02A Laser Cross Level User Manual](#) Comprehensive user manual for the CIGMAN CM-G02 and CM-G02A laser cross level. Includes specifications, operation instructions, safety guidelines, and maintenance tips.
	[CIGMAN CM-720SE Laserová vodováha Uživatelská příručka](#) Kompletní uživatelská příručka pro laserovou vodováhu CIGMAN CM-720SE. Obsahuje bezpečnostní pokyny, provozní režimy, specifikace, řešení problémů a informace o údržbě a záruce.
	[Cigman CNV01: Digitální dalekohled s nočním viděním a kamerou](#) Podrobný návod k použití digitálního binokulárního dalekohledu Cigman CNV01 s funkcí nočního vidění a integrovanou kamerou. Objevte funkce, nastavení a bezpečnostní pokyny pro optimální využití.

Documents - CIGMAN – CD-60

[pdf] User Manual

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