



Manuals.plus /

› CIGMAN /

› CIGMAN CD60R 120M Bilateral Laser Distance Meter User Manual

CIGMAN CD60R

CIGMAN CD60R 120M Bilateral Laser Distance Meter User Manual

1. INTRODUCTION

Thank you for choosing the CIGMAN CD60R Bilateral Laser Distance Meter. This device is designed for precise and efficient distance measurement, offering a range of functions for various applications. Please read this manual carefully before using the device to ensure safe and correct operation.

Improve Your Working Efficiency

CD60R 10 Times Faster

393ft

Two Way



One Way



Tape Measure

Image 1: CIGMAN CD60R Laser Distance Meter

2. SAFETY INFORMATION

This device emits a Class II laser. Observe the following safety precautions:

- 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 beam.
- Do not disassemble or modify the device.
- Keep the device out of reach of children.

3. PRODUCT OVERVIEW

The CIGMAN CD60R offers advanced features for accurate and convenient measurements:

- **Measurement Units:** Supports M/in/Ft.
- **Measurement Methods:** 11 distinct measurement functions.
- **Bilateral Laser Measurement:** Measures from two directions simultaneously, enhancing efficiency.
- **Digital Bubble Level:** Integrated for precise leveling.
- **Automatic Rotating Screen:** Adapts display orientation for ease of use.
- **Color IPS Backlight Display:** Provides clear readability in various lighting conditions.
- **Magnetic Attraction:** Allows attachment to metal surfaces for stable measurements.
- **Data Storage:** Stores up to 100 sets of historical data.
- **Addition/Subtraction:** Perform calculations directly on the device.
- **Durability:** IP54 dust and water resistant, with an anti-slip rubberized body.



Image 2: Overview of CIGMAN CD60R features

4. SETUP

4.1. Charging the Battery

The device is equipped with an 850mAh rechargeable lithium battery. Use the provided Type-C charging cable to charge the device. A full charge provides over 5,500 measurements.

- Connect the Type-C cable to the charging port on the device.
- Connect the other end of the cable to a compatible USB power adapter (not included).
- The battery indicator on the display will show charging status.

850mAh Rechargeable Battery

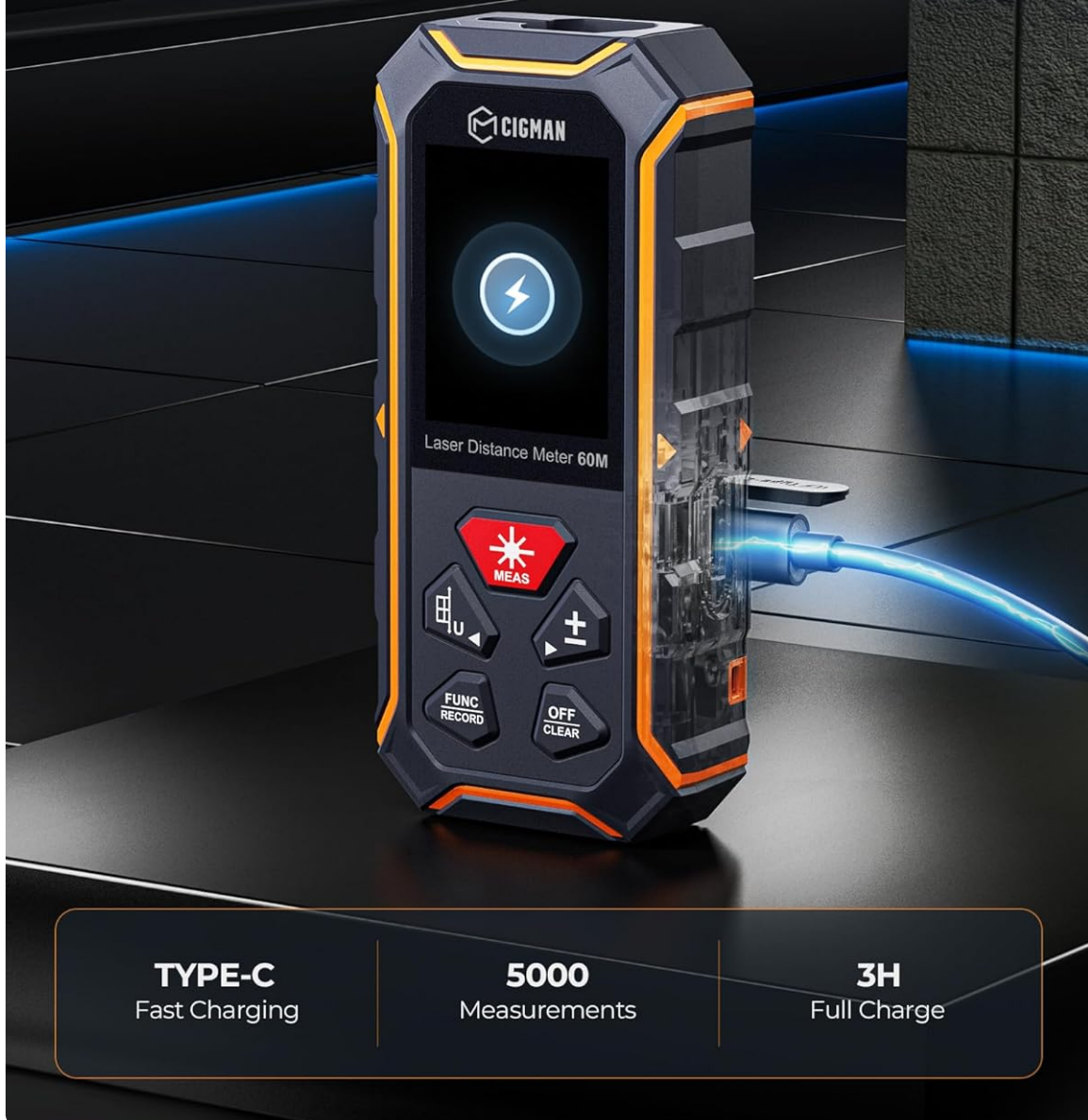


Image 3: Device charging via Type-C port

4.2. Power On/Off

Press the **MEAS** button to power on the device. Press and hold the **OFF/CLEAR** button to power off.

5. OPERATING INSTRUCTIONS

5.1. Basic Measurement

To perform a single measurement:

1. Point the laser at the target surface.

2. Press the **MEAS** button. The measured distance will appear on the screen.

For continuous measurement:

1. Press and hold the **MEAS** button. The device will continuously measure and display the distance.
2. Release the **MEAS** button to stop continuous measurement.

5.2. Bilateral Laser Measurement

The CD60R features bilateral laser technology, allowing measurements from two points simultaneously. This is particularly useful for measuring heights or lengths without needing to move the device to the start or end point.

Your browser does not support the video tag. Please update your browser to view this content.

Video 1: Demonstration of bilateral laser measurement in action.



Image 4: Diagram illustrating 120M bilateral laser measurement capability.

5.3. Unit Switching

The device supports multiple units of measurement. Press the **FUNC/RECORD** button to cycle through available units: meters (m), inches (in), and feet (ft). Fine-tune display formats such as 0.000m, 0.00m, 0.00ft, 0.0in, 1/16in, and 0'00".



Image 5: Display showing various unit conversion options.

5.4. Data Storage

The CD60R can store up to 100 sets of measurement data. This allows for convenient recall and review of past measurements.



Image 6: Device display showing stored data sets.

5.5. Adaptive Rotating Screen

The display automatically rotates to match the device's orientation, ensuring clear readability whether held horizontally or vertically.



Image 7: Device display rotating for horizontal and vertical measurements.

5.6. Magnetic Attraction

The integrated magnetic base allows the device to be securely attached to metal surfaces, providing stability for hands-free measurements.

Strong Magnetic Attraction



IP54 Protection



Image 8: Device attached to a metal surface using magnetic attraction.

5.7. Digital Bubble Level

The built-in digital bubble level assists in achieving accurate horizontal and vertical alignment for measurements.

2 in 1 Angle with Levels



Image 9: Device displaying angle measurement with digital bubble level.

6. MEASUREMENT MODES

The CIGMAN CD60R supports 11 different measurement modes:

- **Length Measurement:** Standard distance measurement.
- **Area Measurement:** Calculates the area of a surface.
- **Volume Measurement:** Calculates the volume of a space.
- **Wall Area Measurement:** Measures the total area of multiple walls.
- **Electronic Angle Mode:** Measures angles using the integrated tilt sensor.

- **Angle and Height:** Combines angle and distance for height calculations.
- **Indirect Height (Pythagorean):** Uses Pythagorean theorem for height measurement from two points.
- **Hypotenuse Measurement:** Calculates the hypotenuse of a right triangle.
- **Auxiliary Height:** Measures height using an auxiliary point.
- **Double Indirect Height:** Measures height from multiple indirect points.
- **Electronic Bubble Level:** Provides a digital level for alignment.

Image 10: Icons illustrating the different measurement modes.

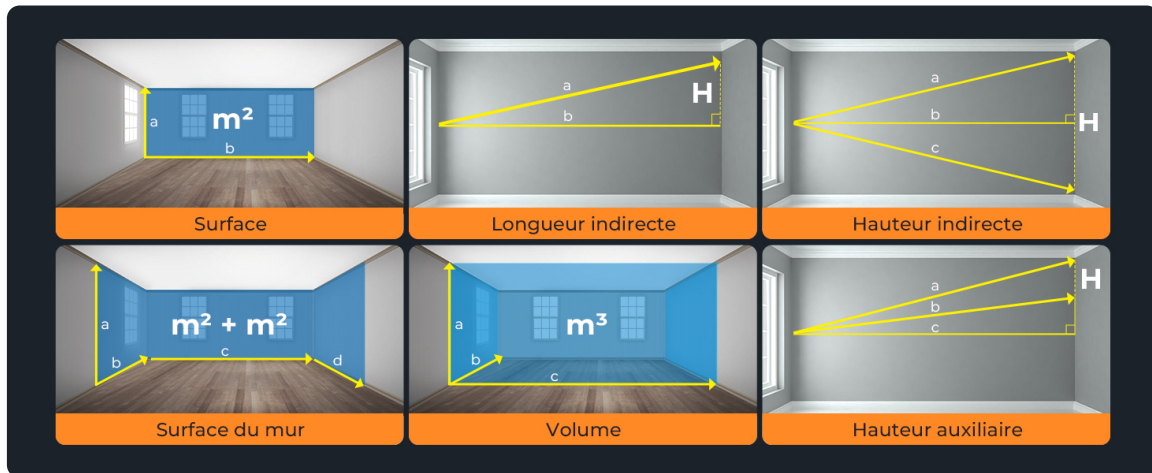


Image 11: Diagrams explaining how different measurement calculations are performed.

7. MAINTENANCE

The CIGMAN CD60R is designed for durability with an IP54 rating, providing protection against dust and splashing water. To ensure optimal performance and longevity:

- Keep the device clean and free from dust and debris.
- Wipe the lens with a soft, dry cloth.
- Avoid exposing the device to extreme temperatures or direct sunlight for extended periods.
- Store the device in its protective pouch when not in use.

Strong Magnetic Attraction



IP54 Protection



Image 12: Device demonstrating IP54 protection against water splashes.

8. TROUBLESHOOTING

If you encounter issues with your CIGMAN CD60R, consider the following general troubleshooting steps:

- **Device not powering on:** Ensure the battery is sufficiently charged. Connect the device to a Type-C charger.
- **Inaccurate measurements:** Ensure the laser lens is clean. Verify the measurement reference point is correctly set. Perform manual calibration if necessary.

- **Display issues:** Check battery level. If the screen is unresponsive, try restarting the device.

For further assistance, please contact CIGMAN customer support.

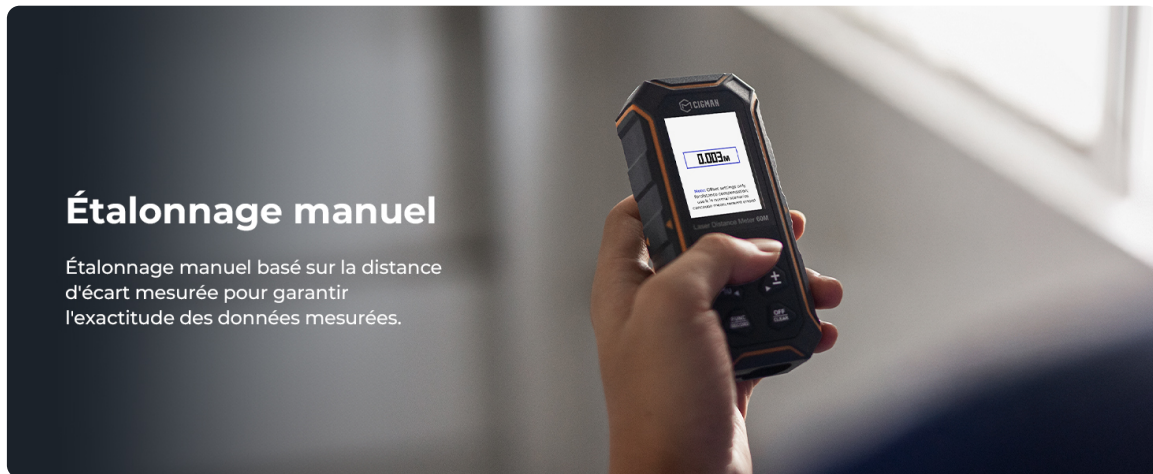


Image 13: Device display showing manual calibration option.

9. SPECIFICATIONS

Feature	Detail
Brand	CIGMAN
Model Number	CD60R
Measuring Range	120m / 393ft
Accuracy	± 1/8 inch (2mm)
Laser Class	Class II, <1mW
IP Rating	IP54
Battery Type	Rechargeable Lithium Battery (850mAh)
Battery Life	>5500 measurements per charge
Charging Port	Type-C
Material	Acrylonitrile Butadiene Styrene
Color	Blue

10. WARRANTY AND SUPPORT

CIGMAN provides a 3-year after-sales service for this product. If you have any questions or require

technical assistance, please do not hesitate to contact CIGMAN customer support. Your package includes:

- 1x CIGMAN CD-60R Bilateral Laser Distance Meter
- 1x Charging Cable
- 1x Storage Bag
- 1x User Manual
- 1x Wrist Strap
- 1x Reflector