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> COROLLATA Digital Angle Finder Model COUS31001c6 User Manual

## COROLLATA COUS31001c6

# COROLLATA Digital Angle Finder User Manual

Model: COUS31001c6

## 1. INTRODUCTION

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Thank you for choosing the COROLLATA Digital Angle Finder. This compact and versatile tool is designed for precise angle measurement in various applications, including woodworking, construction, and home improvement. Featuring a dual laser, magnetic base, and clear digital display, it offers reliable performance and ease of use.



Image 1.1: The COROLLATA Digital Angle Finder displaying an angle of 45.00 degrees, with a red laser line visible.

## Key Features:

- **Compact Design:** Portable pocket size (L2.4in, W2.4in, H1.2in) with a matching belt bag for convenience.
- **High Accuracy:**  $\pm 0.2^\circ$  precision with a  $0.05^\circ$  resolution.
- **Dual Laser:** Class II laser with output  $< 5\text{mW}$  for accurate alignment and marking.
- **Magnetic Base:** Strong magnets on all four sides ensure stable attachment to metal surfaces.
- **Automatic Inversion:** Display automatically inverts when the device is upside down for easy reading.
- **Multiple Measurement Modes:** Supports  $4 \times 90^\circ$  absolute and relative angle measurements.
- **Durable Construction:** Aluminum alloy material with IP67 dust-proof and waterproof rating.
- **Rechargeable Battery:** Internal 400mAh Li-Polymer battery, charged via USB-C.
- **Bright Backlight:** Ensures clear readability even in bright conditions.

## 2. SETUP

## 2.1 Unpacking and Initial Inspection

Carefully remove the digital angle finder from its packaging. Inspect the device for any signs of damage. Ensure all components, including the USB-C charging cable and belt bag, are present.

## 2.2 Charging the Battery

The device is powered by an internal 400mAh Li-Polymer rechargeable battery. Before first use, it is recommended to fully charge the device.

1. Connect the provided USB-C charging cable to the charging port on the device.
  2. Connect the other end of the USB-C cable to a standard USB power adapter (not included) or a computer USB port.
  3. The battery indicator on the display will show charging status. A full charge typically takes approximately 2-3 hours.
  4. Once fully charged, disconnect the charging cable.
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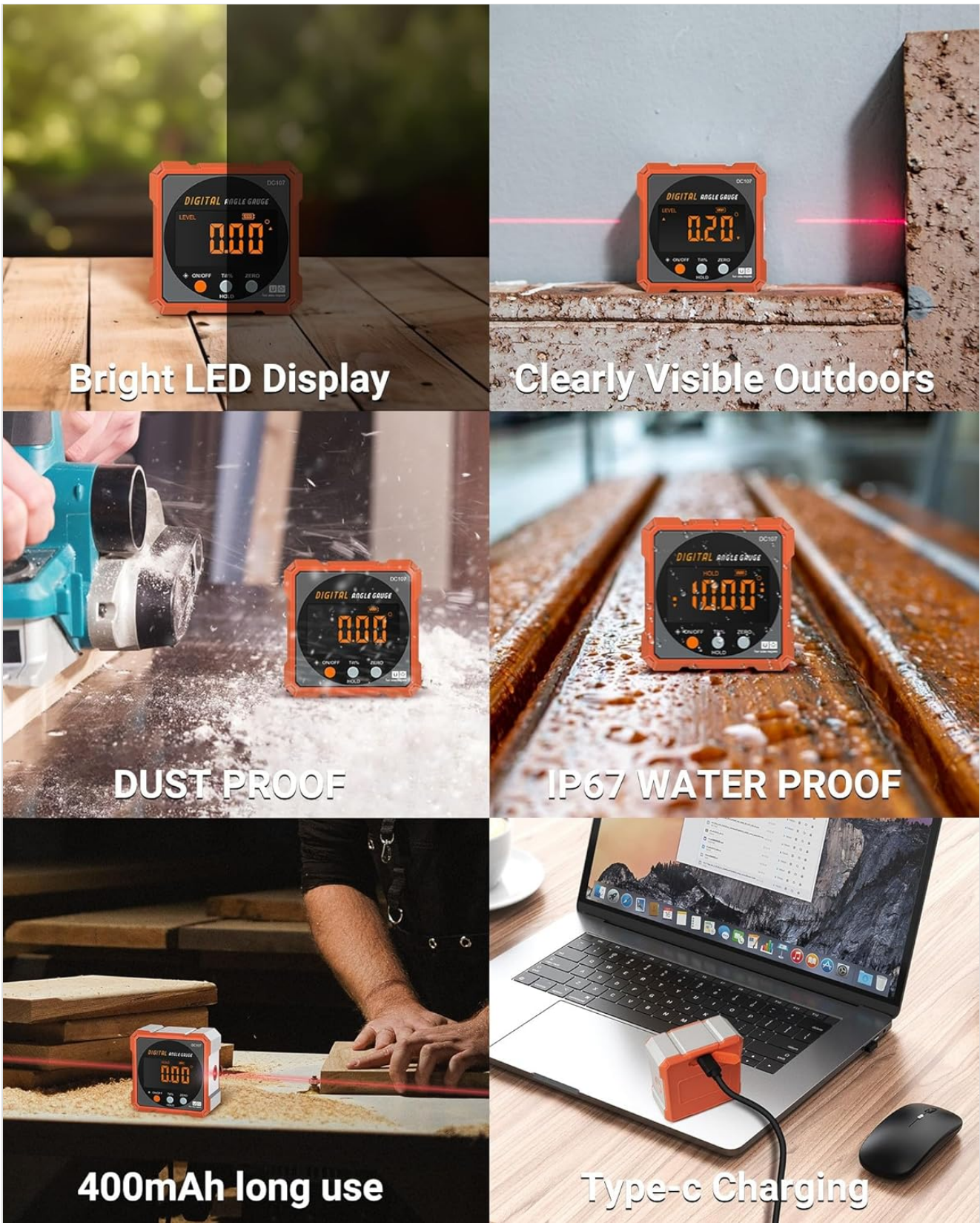


Image 2.1: The digital angle finder connected to a laptop via a USB-C cable for charging.

### 3. OPERATING INSTRUCTIONS

#### 3.1 Power On/Off

- Press the **ON/OFF** button to turn the device on. The display will light up.
- Press and hold the **ON/OFF** button for a few seconds to turn the device off.

## 3.2 Measurement Modes

The device supports two primary measurement modes:

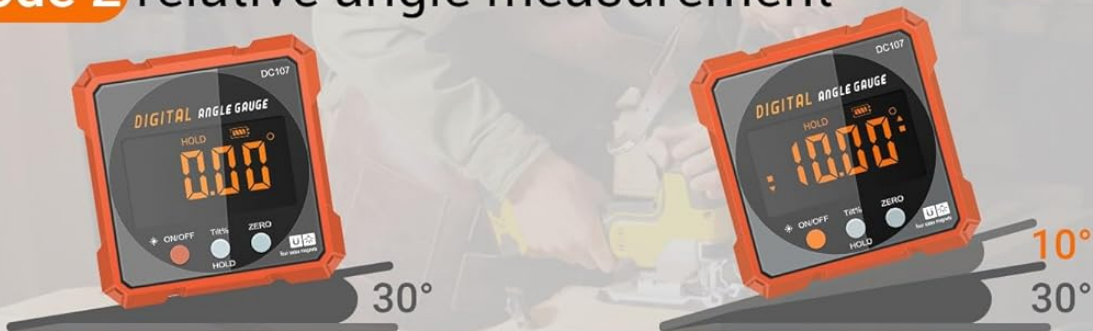
- **Absolute Angle Measurement (ABS):** Measures the angle relative to a true horizontal plane ( $0^\circ$ ).
- **Relative Angle Measurement (REL):** Allows you to set any surface as a temporary  $0^\circ$  reference point to measure subsequent angles relative to that reference.

# 2 measurement modes

## mode 1 absolute angle measurement



## mode 2 relative angle measurement



# 2 measurement units



Degree  $^\circ$



Slope %

Image 3.1: Illustration of absolute and relative angle measurement modes, demonstrating how the device displays angles from a fixed horizontal or a user-defined zero point.

## 3.3 Zeroing Function

To set a relative zero point:

1. Place the angle finder on the desired reference surface.
2. Press the **ZERO** button. The display will show 0.00°.
3. All subsequent measurements will be relative to this new zero point.

### 3.4 Hold Function

To hold the current reading on the display:

- Press the **HOLD** button. The current angle will be frozen on the screen.
- Press the **HOLD** button again to release and resume live measurement.

### 3.5 Unit Conversion (Degrees / Slope Percentage)

To switch between degrees (°) and slope percentage (%):

- Press the **TILT%** button to toggle between the two units.

### 3.6 Laser Operation

The dual lasers assist in precise alignment and marking.

- Press the laser button (often integrated with ON/OFF or a dedicated button, refer to device markings) to activate the lasers.
- The lasers project lines to indicate the measured angle, useful for tasks like hanging decorations or aligning cuts.
- **Caution:** Do not stare directly into the laser beam. Avoid pointing the laser at people or animals.

### 3.7 Magnetic Base Usage

The strong magnets on all four sides allow the device to securely attach to metal surfaces, providing hands-free operation.

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# 4 Corners Contain Powerful Magnets

Stable fixing to any metal surface



Image 3.2: The digital angle finder demonstrating its magnetic attachment capabilities and the automatic display inversion feature for 360-degree measurement.

## 3.8 Applications

The COROLLATA Digital Angle Finder is suitable for a wide range of tasks:

- **Woodworking:** Setting angles for table saws, miter saws, and other cutting tools for rip cuts and cross cuts.
- **Construction:** Floor leveling, checking slopes, and general angle verification.
- **Home Improvement:** Hanging decorations, leveling monitors, and ensuring horizontal or vertical alignment.
- **Vehicle Repair:** Measuring angles for automotive adjustments.

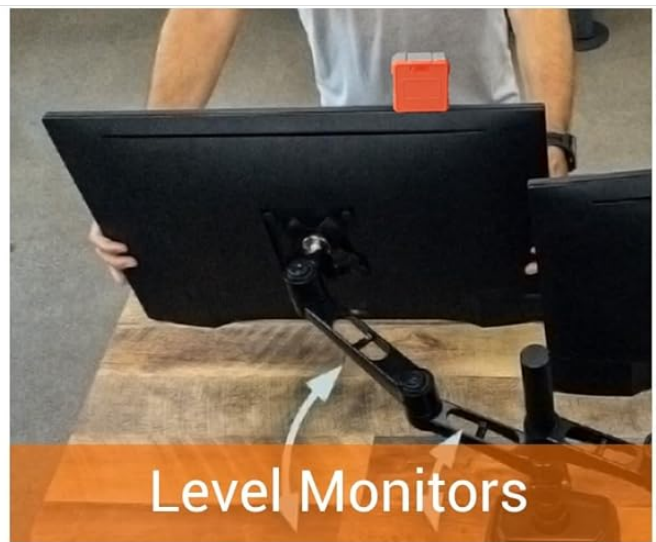
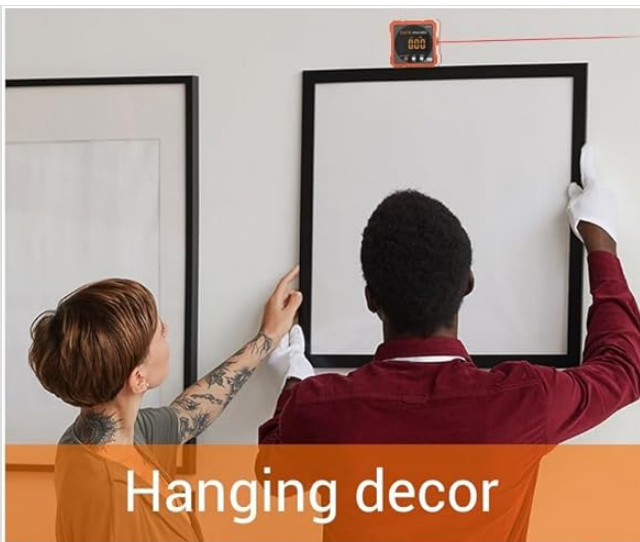


Image 3.3: Examples of the digital angle finder in use for diverse applications, highlighting its versatility.

## 4. MAINTENANCE

### 4.1 Cleaning

The device has an IP67 dust-proof and waterproof rating, allowing for use in various environments. To clean:

- Wipe the device with a soft, damp cloth.
- Do not use abrasive cleaners or solvents, as these may damage the display or casing.

- Ensure the charging port cover is securely closed to maintain water resistance.

## 4.2 Battery Care and Storage

- To prolong battery life, avoid fully discharging the battery frequently. Recharge when the battery indicator is low.
- Store the device in a cool, dry place, away from direct sunlight and extreme temperatures.
- If storing for an extended period, charge the battery to approximately 50% every few months.
- Use the provided belt bag for protection during storage and transport.

## 5. TROUBLESHOOTING

If you encounter issues with your COROLLATA Digital Angle Finder, please refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Device does not power on	Low or depleted battery	Charge the device using the USB-C cable.
Inaccurate readings	Device not zeroed correctly; external interference	Ensure the device is placed on a stable, level surface before zeroing. Re-zero the device. Avoid strong magnetic fields during use.
Display is dim or unreadable	Low battery; extreme lighting conditions	Charge the battery. The bright backlight should assist in most conditions, but direct harsh sunlight can still affect visibility.
Lasers not visible	Lasers not activated; low battery; bright ambient light	Press the laser activation button. Charge the device. Use in conditions where the laser line is more visible.

If the problem persists after attempting these solutions, please contact COROLLATA customer support for further assistance.

## 6. SPECIFICATIONS

Feature	Specification
Model Number	COUS31001c6
Material	Aluminum Alloy
Measuring Range	4*90° (360°)
Resolution	0.05°
Accuracy	±0.2°

Feature	Specification
Repeatability	0.1°
Power Supply	3.7V Lithium Polymer Battery
Battery Capacity	400mAh
Charging Port	USB-C
Working Temperature	14-122°F (-10-50°C)
Dimensions (approx.)	L2.4in x W2.4in x H1.2in (61mm x 61mm x 30mm)
Item Weight	141 g
IP Rating	IP67 (Dust-proof and Waterproof)
Laser Class	Class II, Output <5mW

## 7. WARRANTY AND SUPPORT

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### 7.1 Warranty Information

For specific warranty details, please refer to the warranty card included with your product or contact the retailer from whom you purchased the COROLLATA Digital Angle Finder. Warranty terms typically cover manufacturing defects for a specified period from the date of purchase.

### 7.2 Customer Support

If you have any questions, require technical assistance, or need to report an issue with your device, please contact COROLLATA customer support through the following channels:

- **Website:** Visit the official COROLLATA website for support resources and contact forms.
- **Email:** Refer to your product packaging or the COROLLATA website for the customer support email address.
- **Retailer:** Contact the retailer where you purchased the product for initial support.

Please have your model number (COUS31001c6) and purchase date ready when contacting support.