

## ERICAT Digital Inclinometer B0CLX4CCDM

# ERICAT Digital Angle Gauge Inclinometer User Manual

MODEL: DIGITAL INCLINOMETER B0CLX4CCDM

## 1. Introduction

Thank you for choosing the ERICAT Digital Angle Gauge Inclinometer. This precision tool is designed for highly accurate angle measurements in various applications, including woodworking, construction, machine manufacturing, and automotive repair. Its user-friendly interface, backlit display, and robust design ensure reliable performance.

Key features include:

- High precision and accuracy for critical measurements.
- User-friendly digital display for quick and accurate readings.
- Upgraded LCD display with high visibility reverse contrast for clear reading in various lighting conditions.
- Durable, thick plastic case for protection against drops and impacts.
- Wide range of applications across multiple industries.

## 2. Safety Information

Please read and understand all safety instructions before using this device. Failure to do so may result in injury or damage to the product.

- **Battery Safety:** Use only specified batteries (2 AA batteries, not included). Do not mix old and new batteries, or different types of batteries. Ensure correct polarity. Remove batteries if the device will not be used for an extended period.
- **General Handling:** Avoid dropping the device from excessive heights. Keep the device clean and dry. Do not expose to extreme temperatures or direct sunlight for prolonged periods.
- **Laser Safety (if applicable):** If your model includes a laser, do not stare directly into the laser beam. Avoid pointing the laser at people or animals.

## 3. Product Overview and Components

The ERICAT Digital Angle Gauge Inclinometer is a compact and versatile tool. The package typically includes:

- 1x Digital Inclinometer
- User Manual (this document)

**Note:** Batteries are not included and must be purchased separately.

#### Device Features:

- **Digital Display:** Backlit LCD for clear readings.
- **Control Buttons:** ON/OFF, ZERO, MODE, HOLD.
- **Magnetic Base:** For secure attachment to metal surfaces.
- **Spirit Level Vial:** For quick visual leveling.



Figure 1: Front view of the ERICAT Digital Angle Gauge Inclinometer.

## 4. Setup

### 4.1 Battery Installation

1. Locate the battery compartment cover on the back of the device.
2. Open the cover.
3. Insert 2 AA batteries, ensuring correct polarity (+/-).
4. Close the battery compartment cover securely.

## 4.2 Initial Power On

Press the **ON/OFF** button to power on the device. The backlit LCD display will illuminate, showing the current angle reading.

## 5. Operating Instructions

### 5.1 Power On/Off

- **To Power On:** Short press the **ON/OFF** button.
- **To Power Off:** Press and hold the **ON/OFF** button for approximately 3 seconds.

### 5.2 Measurement Modes (Absolute vs. Relative)

The inclinometer supports both absolute and relative measurement modes.

- **Absolute Measurement Mode:** Measures the angle relative to a true horizontal surface.
- **Relative Measurement Mode:** Allows you to set any surface as a temporary zero reference point for measuring subsequent angles.

To switch between modes, press the **ZERO** button. In relative mode, the display will show '0.00°' after pressing **ZERO**, indicating the new reference point.

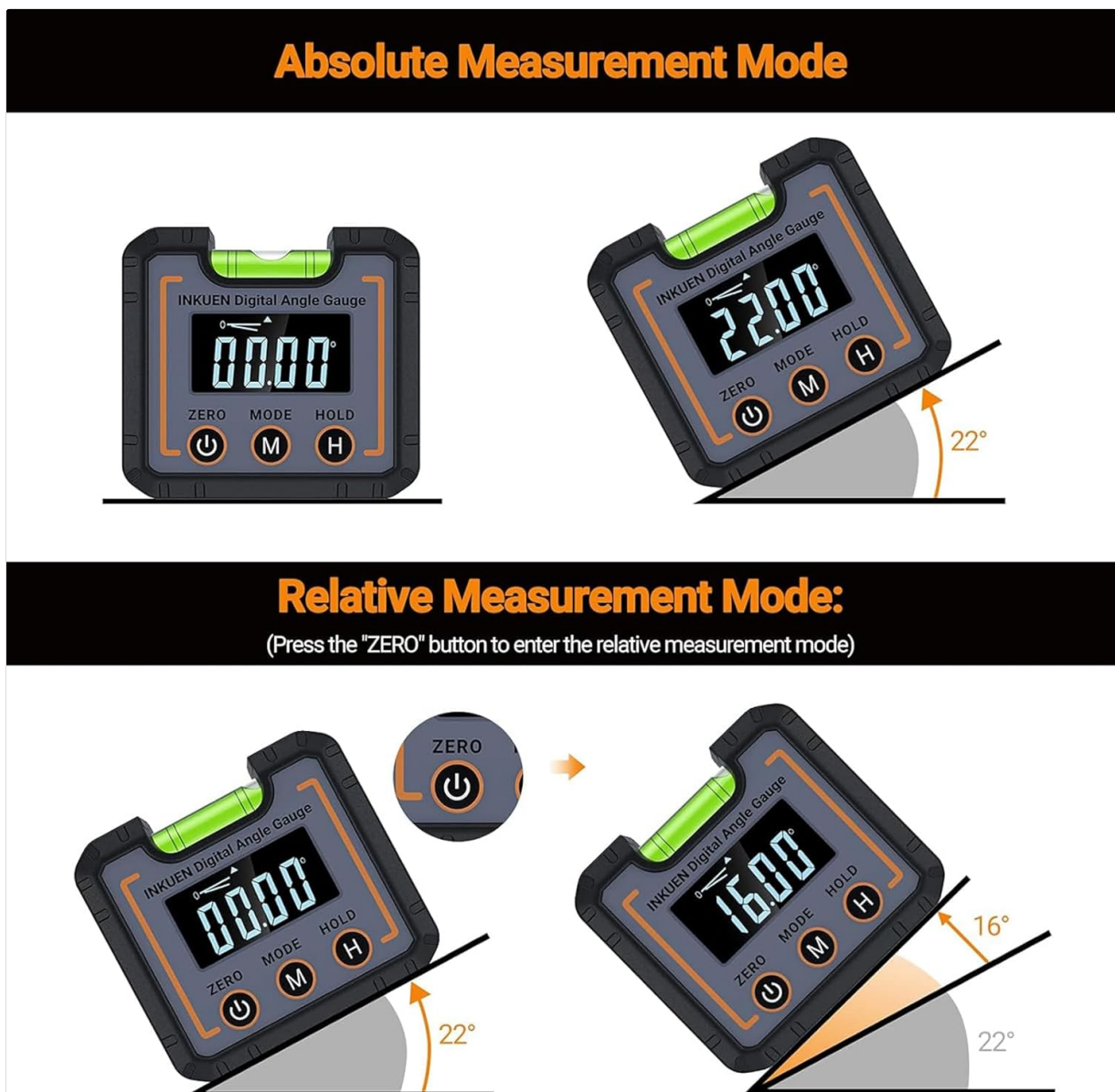


Figure 2: Illustration of Absolute and Relative Measurement Modes.

### 5.3 Unit Switching

The device can display measurements in four different units: Degrees (°), Percentage (%), mm/m, and in/ft.

- To cycle through the measurement units, short press the **MODE** button.

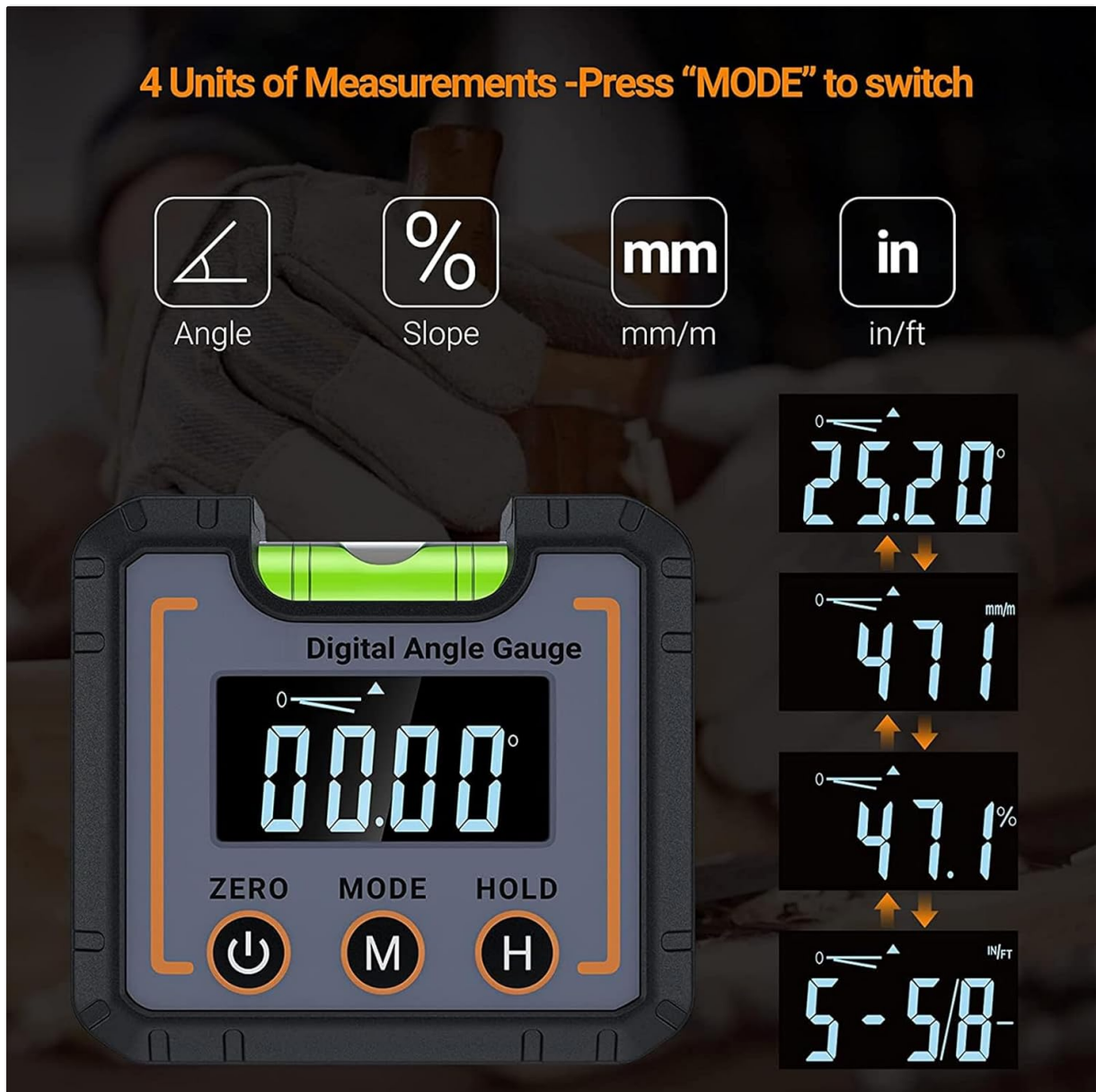


Figure 3: Switching between the four available measurement units.

### 5.4 Hold Function

The **HOLD** function allows you to freeze the current reading on the display for easier viewing, especially in hard-to-reach areas.

- To activate the HOLD function, short press the **HOLD** button. The reading will freeze, and a 'HOLD' indicator may appear on the screen.
- To release the HOLD function and resume live readings, short press the **HOLD** button again.

### 5.5 Automatic Screen Flip

The display automatically rotates 180° when the device is inverted, ensuring the numbers are always upright and easy to read from any orientation.

# Large LCD Display with Backlight

Easy to read and 4 measurement units can be switched at will



Figure 4: The large LCD display with backlight and automatic screen flip for enhanced readability.

## 5.6 Magnetic Base Usage

The strong magnetic base allows the inclinometer to be securely attached to metal surfaces, providing hands-free operation and stable measurements.



*Figure 5: The inclinometer in use, demonstrating its versatility.*

## 5.7 Example Applications

The ERICAT Digital Angle Gauge is suitable for a variety of tasks:

- Setting blade angles on table saws and miter saws.
- Measuring slopes for drainage or construction.
- Aligning machinery and equipment.
- Checking angles in automotive repair.
- General leveling and angle finding in home decoration and DIY projects.



Figure 6: Multi-scenario usage of the digital angle gauge, including timber processing, home decoration, and car repair.

## 5.8 Illustrative Videos

The following videos demonstrate common features and uses of digital angle gauges. Please note that the specific device shown in these videos may vary from your ERICAT model, but the principles of operation are similar.

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Video 1: Demonstration of a digital angle finder with electronic laser, showing angle measurement and laser line projection.

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Video 2: Overview of a digital angle gauge, highlighting its multi-functional aspects, angle range, measurement modes, and backlight display.

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Video 3: Features and operation of a digital magnetic angle gauge, including its laser function, measurement modes, and magnetic base.

## 6. Maintenance

- **Cleaning:** Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or solvents.

- **Storage:** Store the inclinometer in a cool, dry place away from direct sunlight and extreme temperatures. Remove batteries if storing for extended periods to prevent leakage.
- **Battery Replacement:** Replace batteries when the low battery indicator appears on the display to ensure accurate readings.

## 7. Troubleshooting

- **Device does not power on:** Check battery installation and ensure batteries are fresh.
- **Inaccurate readings:** Ensure the device is placed on a stable surface. Perform calibration if necessary.
- **Display shows 'Err':** This may indicate an out-of-range measurement or a calibration issue. Re-position the device or perform calibration.

## 8. Specifications

Feature	Specification
Product Name	Digital Inclinometer
Display Range	0~90°
Resolution	0.05°
Accuracy	±0.1°
Power Source	2 AA Batteries (Not Included)
Working Temperature	0°C~40°C
Storage Temperature	-10°C~50°C
Product Size	68x32x62MM
Manufacturer	ERICAT

## 9. Warranty and Support

For warranty information, technical support, or service inquiries, please refer to the contact information provided with your purchase or visit the official ERICAT website. Keep your purchase receipt as proof of purchase for warranty claims.