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eOUTIL DL1903

eOUTIL Digital Level Angle Finder DL1903 User Manual

Model: DL1903

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1. INTRODUCTION

This eOUTIL Digital Level Angle Finder (Model DL1903) is a versatile 3-in-1 device, combining the functions of a protractor, angle finder, and level. It is designed for precise angle measurement in various applications, including woodworking, welding, and construction. Key features include a large, clear display, a strong V-groove magnetic base, and an IP65 waterproof and dustproof rating, ensuring reliability and ease of use in diverse working conditions.



Figure 1: eOUTIL Digital Level Angle Finder DL1903 main unit.

2. SETUP

2.1 Battery Installation

The eOUTIL Digital Level Angle Finder requires two AAA batteries (not included) for operation.

1. Locate the battery compartment cover on the back of the device.
2. Use a small screwdriver (often included) to open the battery compartment.
3. Insert two AAA batteries, ensuring correct polarity (+/-) as indicated inside the compartment.
4. Securely close the battery compartment cover.



Figure 2: Product packaging showing the device and included screwdriver for battery access.

2.2 Powering On/Off

Press the **Power** button (usually marked with a power symbol) to turn the device on or off.

3. OPERATION

3.1 Basic Measurement

Place the device on the surface you wish to measure. The angle will be displayed on the LCD screen. The display value automatically inverts when the electronic level is upside down for easier reading.



Strong magnetic base can firmly attaches on metal material when the product is inverted, the number is automatically reversed

Figure 3: The device in use, demonstrating automatic display inversion for readability.

3.2 Absolute and Relative Measurement Modes

This digital protractor offers two measurement modes:

- **Absolute Angle Measurement:** Used to test if a surface is level (0°) or to verify specific slopes, such as roof pitches or wheel alignment.
- **Relative Angle Measurement:** Allows you to measure the angle between two surfaces. Press the **ZERO** button on a reference surface to set it as 0° , then move the device to the second surface to measure the relative angle.

Press the **ZERO** button to switch between absolute and relative modes or to zero out the current reading.

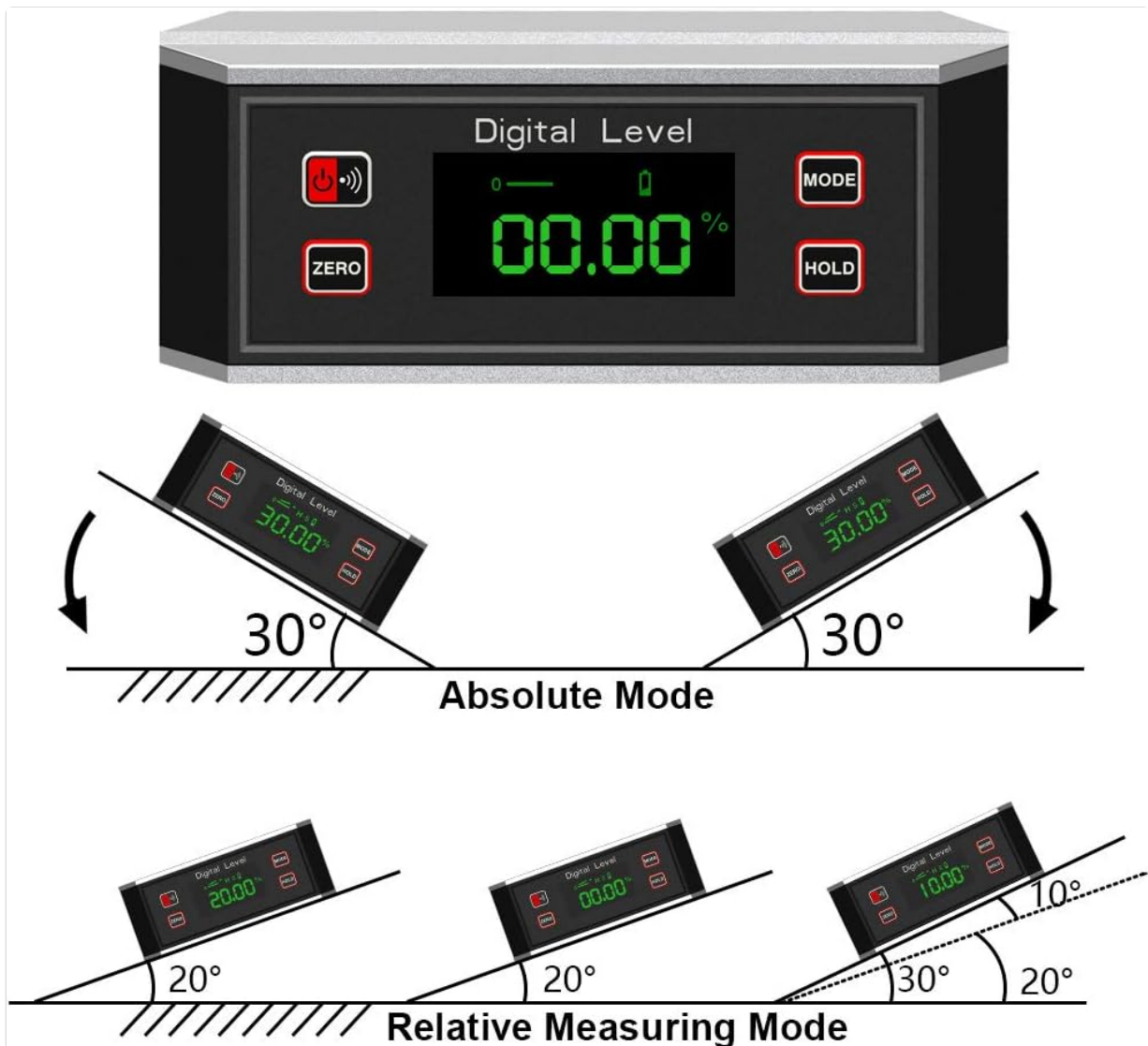


Figure 4: Illustration of absolute and relative angle measurement modes.

3.3 Unit Selection

The device can display angle readings in various units:

- Degrees (°)
- IN/FT (inches per foot)
- mm/M (millimeters per meter)
- Percentage of slope (%)

Press the **MODE** button to cycle through the available measurement units.

3.4 Hold Function

To freeze the current reading on the display, press the **HOLD** button. This is useful for recording measurements in difficult-to-view positions. Press **HOLD** again to release the reading.

3.5 Backlit LCD and Audio Indicator

The large, bright LCD screen is backlit, allowing for easy reading in various light conditions. The device also features an acoustic signal (beeps) that indicates when the measurement reaches 0° or 90°, providing an audible cue for level or plumb positions.

3.6 V-Groove Magnetic Base

The integrated V-groove magnetic base allows the device to be firmly attached to ferrous metal surfaces. This feature is particularly useful for hands-free operation on pipes, steel construction frames, and during metal fabrication tasks.



Figure 5: The V-groove magnetic base allows secure attachment to cylindrical metal objects.



Figure 6: Visual representation of key features, including the magnetic base.

4. MAINTENANCE

4.1 Cleaning

To clean the device, wipe it with a soft, damp cloth. Do not use abrasive cleaners or solvents, as these may damage the display or casing.

4.2 Storage

When not in use, store the device in a dry, cool place, away from direct sunlight and extreme temperatures. If storing for extended periods, remove the batteries to prevent leakage.

4.3 IP65 Rating

The eOUTIL Digital Level Angle Finder has an IP65 rating, meaning it is protected against dust ingress and low-pressure water jets from any direction. This makes it suitable for use in challenging environmental conditions, including those with water splashes and dust. However, it is not designed for immersion in water.

IP65 RATING

WATERPROOF AND DUST-PROOF

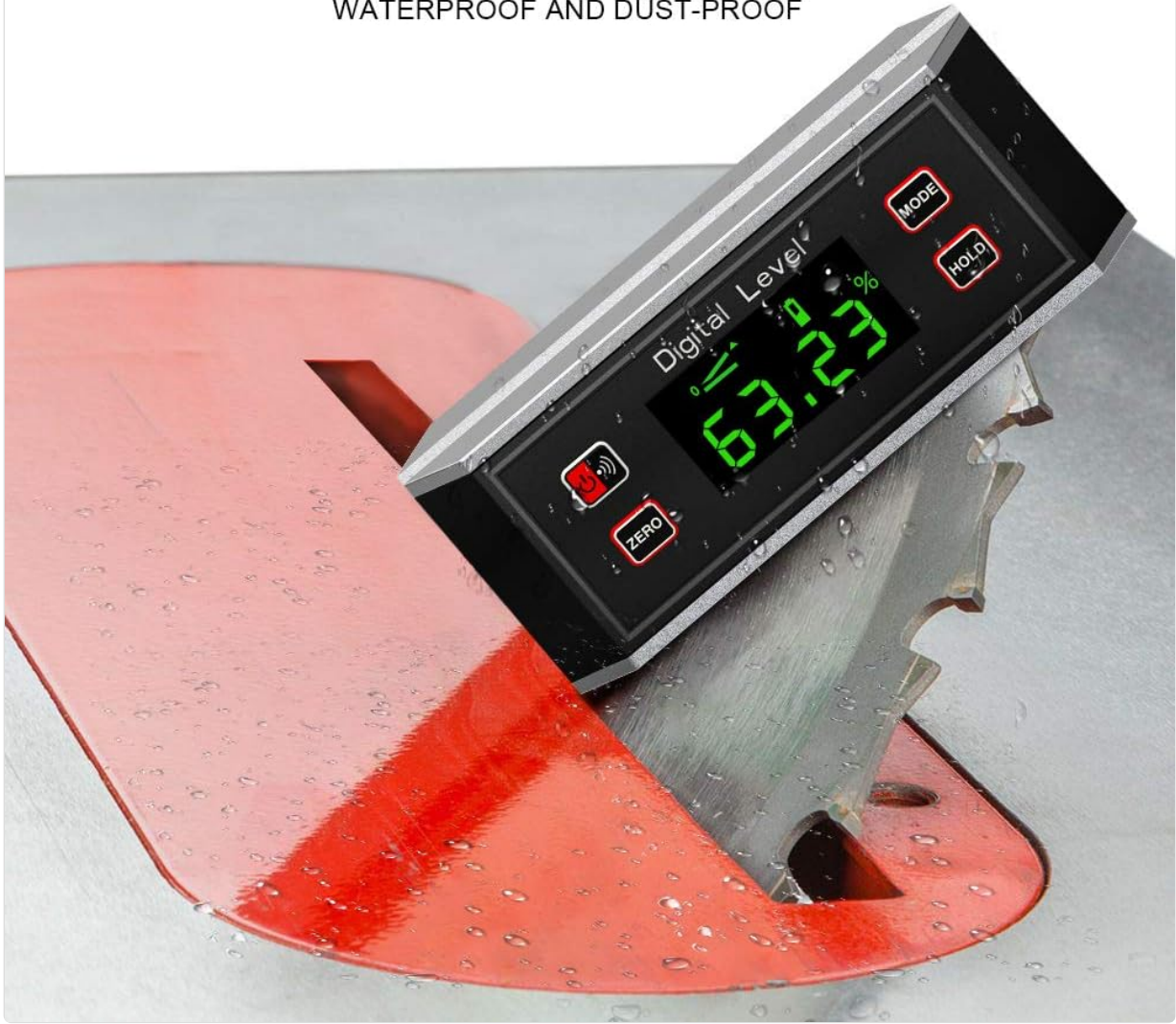


Figure 7: The device highlighting its IP65 waterproof and dustproof rating.

5. TROUBLESHOOTING

- **Device does not power on:** Check if the batteries are inserted correctly with the right polarity. Replace batteries if they are depleted.
- **Inaccurate readings:** Ensure the measurement surface is clean and free of debris. If readings are consistently inaccurate, especially when rotated 180 degrees, the device may require calibration. Refer to the manufacturer's specific calibration instructions, which may be provided in a separate document or on their website.
- **Display is dim or flickering:** Replace the batteries.
- **Display shows 'Err' or other error codes:** Turn the device off and then on again. If the error persists, contact customer support.

6. SPECIFICATIONS

Feature	Specification
Model Number	DL1903

Accuracy	$\pm 0.1^\circ$ at 0° and 90° ; $\pm 0.2^\circ$ at other angles
Resolution	0.1°
Measurement Units	Degrees ($^\circ$), IN/FT, mm/M, Percentage (%)
Power Source	2 x AAA Batteries
Protection Grade	IP65 (Waterproof and Dustproof)
Material	ABS Plastic, Aluminum Frame
Dimensions (approx.)	15.0 cm x 6.1 cm x 3.0 cm (5.9 in x 2.4 in x 1.2 in)
Weight (approx.)	249 g



Figure 8: Device dimensions for reference.

7. WARRANTY & SUPPORT

For warranty information, please refer to the documentation included with your product at the time of purchase or visit the official eOUTIL website. For technical support or inquiries, please contact eOUTIL customer service through the channels provided on their official website or your retailer's support page.

