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YGiTK DL905

YGiTK Magnetic Digital Angle Gauge

Model: DL905 User Manual

1. Introduction

The YGiTK Magnetic Digital Angle Gauge DL905 is a versatile measuring instrument designed for precise angle measurement and leveling tasks. It features a dual laser for alignment, strong magnetic base for hands-free operation, and a clear LED display. This manual provides detailed instructions for the safe and effective use of your device.

2. Safety Information

WARNING: LASER RADIATION
This device emits Class 2 laser radiation. Avoid direct eye exposure to the laser beam. Do not stare into the beam. Do not aim the laser at people or animals. Use caution when operating the device to prevent accidental exposure.

- Always operate the device in accordance with the instructions provided.
- Do not attempt to disassemble or modify the device.
- Keep the device away from children.
- Ensure the device is stored in a dry, safe place when not in use.

3. Product Overview



Image 3.1: Front view of the YGiTK Digital Angle Gauge showing its dimensions (85mm/3.34in width, 65mm/2.56in height, 38mm/1.49in depth) and key features like LED screen, 4*90°/2*180° measuring range, IP54 waterproof rating, ±0.1-0.2° error range, 0.05° resolution, Type-C charging, angle finder function, and unit conversion.

The DL905 is a compact and robust digital angle gauge featuring:

- **High Accuracy:** ±0.1° at 0° & 90°, 0.05° resolution.
- **Dual Laser:** Projects horizontal and vertical laser lines for precise alignment up to 10m indoors.
- **Magnetic Base:** Three powerful magnets (bottom and back) for secure attachment to metal surfaces. Includes adhesive steel plates for non-metal surfaces.
- **LED Display:** High-visibility LED screen with digital bubble indicator, readable in various lighting conditions.
- **Sound Alert:** Audible buzzer for 0° and 90° angles.
- **Rechargeable Battery:** Built-in 650mAh lithium battery with Type-C charging, offering 6+ hours with lasers on or 10 hours measuring only.
- **Multiple Functions:** Hold function, Zero setting, calibration, unit conversion (° / % / mm/m / IN/FT), low battery alert, and auto shut-off.

4. Package Contents



Image 4.1: The YGiTK Digital Angle Gauge package includes the device, a carrying pouch, a USB Type-C data cable, two adhesive steel plates, and the user manual.

Please check the package for the following items:

- YGiTK Digital Angle Gauge (DL905)
- USB Type-C Charging Cable
- Carrying Pouch
- Adhesive Steel Plates (2 pcs)
- User Manual

5. Setup

1. **Initial Charging:** Before first use, fully charge the device using the provided Type-C cable. Connect the cable to the device's Type-C port and a suitable USB power adapter (not included). The charging indicator on the display will show charging status.
2. **Remove Protective Film:** Carefully peel off any protective film from the display screen before operation to ensure clear visibility.

6. Operating Instructions



Image 6.1: Close-up of the YGiTK Digital Angle Gauge's LED display and control buttons: Zero/Calibrate, Laser, Hold, and Mode.

1. **Power On/Off:** Press the **Power** button (often integrated with the Zero/Calibrate button) to turn the device on or off. The device will automatically shut off after 3 minutes of inactivity to conserve battery.
2. **Zero Calibration:**
   a. Place the angle gauge on a flat, level surface.
   b. Press the **ZERO/CAL** button once to set the current position as 0°. The display will show "0.00°".
   c. For absolute measurement, press and hold the**ZERO/CAL** button to enter calibration mode. Follow on-screen prompts to calibrate to a known 0° reference.
3. **Laser Operation:**
   a. Press the **LASER** button once for a horizontal laser line.
   b. Press the **LASER** button twice for a vertical laser line.
   c. Press the **LASER** button three times for both horizontal and vertical laser lines.
   d. Press the **LASER** button a fourth time to turn off the laser.

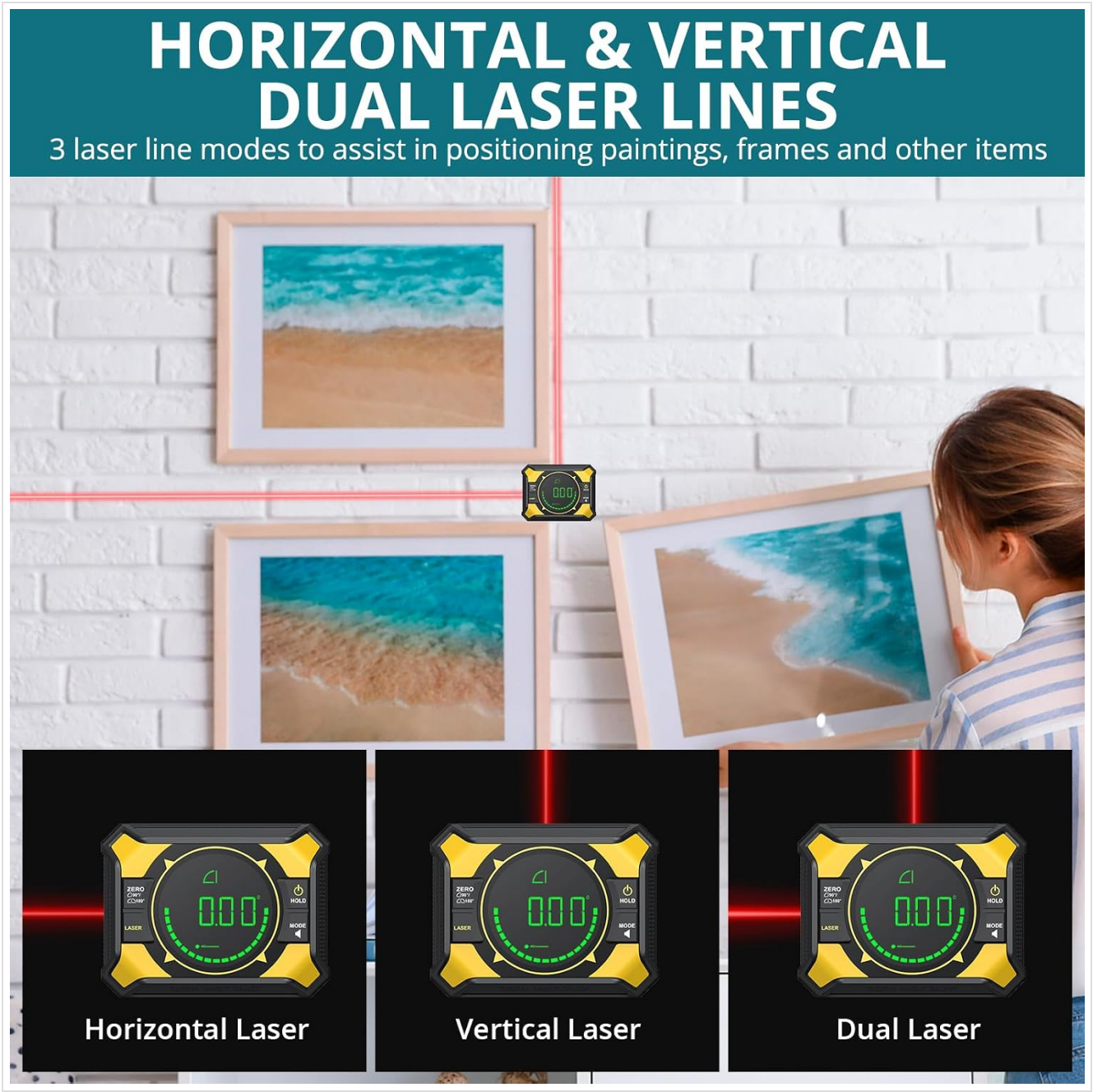


Image 6.2: The angle gauge demonstrating its three laser line modes: horizontal, vertical, and dual, useful for positioning items like picture frames.

4. **Hold Function:** Press the **HOLD** button to freeze the current reading on the display. Press it again to release and resume live measurement.
5. **Unit Conversion:** Press the **MODE** button to cycle through different measurement units: degrees (°), percentage (%), mm/m, and in/ft.

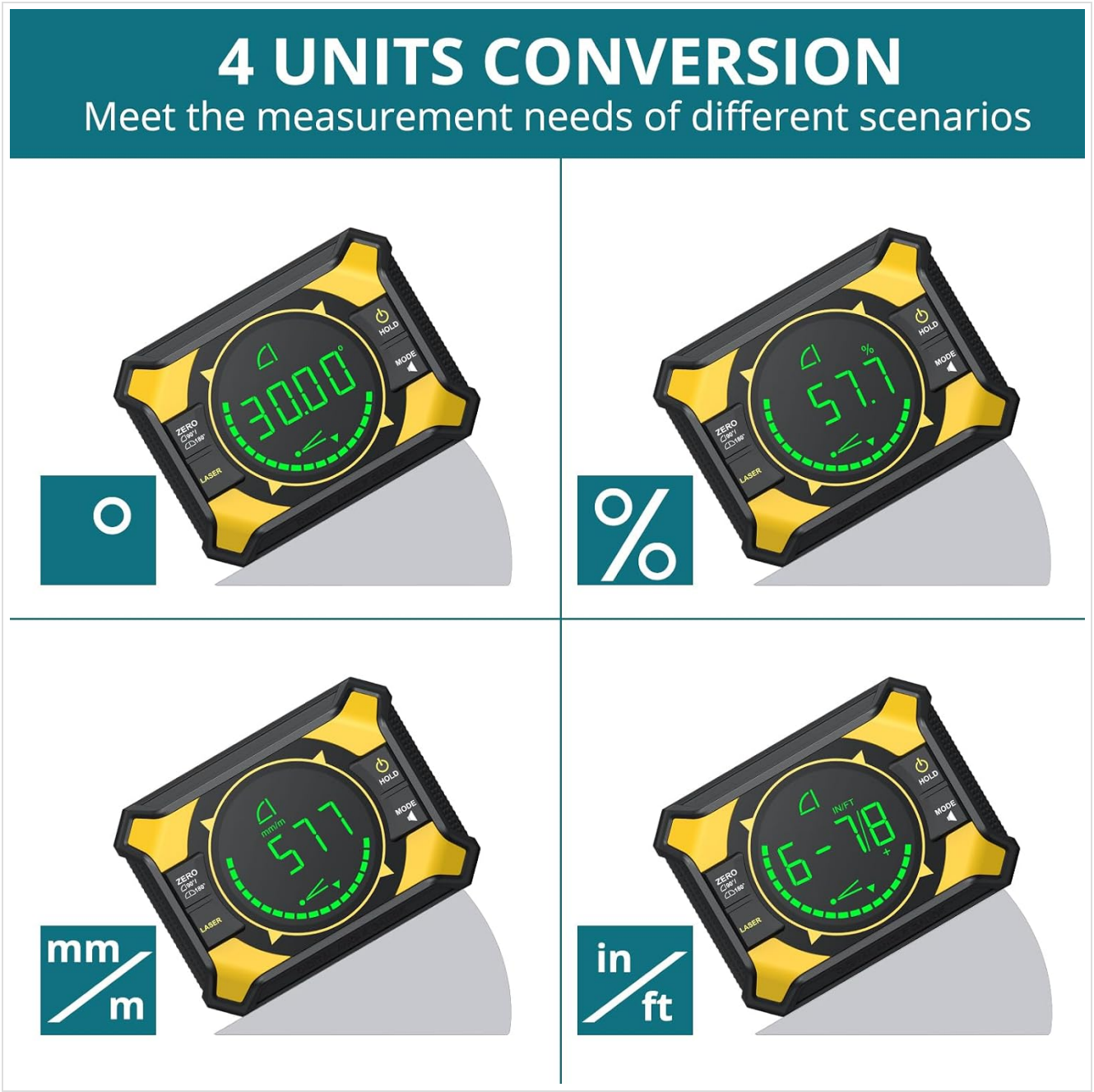


Image 6.3: The display showing angle measurements in degrees, percentage, millimeters per meter, and inches per foot.

6. **Magnetic Attachment:** The device has strong magnets on its bottom and back surfaces for secure attachment to ferrous metal objects. For non-metal surfaces, use the included adhesive steel plates to create a magnetic mounting point.



Image 6.4: The angle gauge demonstrating its magnetic attachment to a metal surface, allowing for hands-free operation.

7. **Buzzer Alarm:** The device emits an audible alarm when the measured angle is near 0° (0°-1°) or 90° (89°-91° and 179°-180°), assisting in achieving perfect level or plumb without constantly watching the display.

7. Applications



Image 7.1: The angle gauge being used in diverse scenarios including woodworking, home decoration (picture hanging), and general construction tasks.

The YGiTK Digital Angle Gauge is suitable for a wide range of applications, including but not limited to:

- Woodworking (e.g., setting saw blade angles)
- Framing and construction
- Tile installation and layout
- Picture hanging and shelf installation
- Electrical conduit bending
- Stair building
- Machine manufacturing and setup
- General DIY projects requiring precise angle measurement.

8. Charging



Image 8.1: The YGiTK Digital Angle Gauge connected to a power source via its Type-C charging port, illustrating the convenient charging method.

The device is equipped with a built-in 650mAh lithium battery. To charge:

1. Connect the supplied Type-C USB cable to the charging port on the side of the device.
2. Connect the other end of the cable to a standard USB power source (e.g., wall adapter, computer USB port, power bank).
3. The LED display will indicate the charging status. A full charge typically takes approximately 2 hours.
4. A full charge provides approximately 6+ hours of operation with both lasers on, or 10 hours for angle measurement only.

9. Specifications

Feature	Specification

Model Number	DL905
Measuring Range	4 x 90° (2 x 180°)
Accuracy	±0.1° at 0° & 90°, ±0.2° at other angles
Resolution	0.05°
Laser Class	Class 2, Output <5mW
Laser Range	Up to 10m (indoors)
Battery	650mAh Lithium-ion (Rechargeable via Type-C)
Battery Life	Approx. 6+ hours (lasers on), 10 hours (measurement only)
Auto Shut-off	3 minutes (adjustable)
Operating Temperature	0°C to 40°C (32°F to 104°F)
Storage Temperature	-10°C to 50°C (14°F to 122°F)
Dimensions	85mm x 65mm x 38mm (approx.)
Weight	Not specified

10. Troubleshooting

Problem	Possible Cause	Solution
Device does not power on	Low battery or no charge	Charge the device using the Type-C cable.
Inaccurate readings	Device needs calibration	Perform a zero calibration on a known flat surface.
Laser not visible	Laser is off or battery is low	Press the LASER button to activate. Ensure the device is charged.
Buzzer not sounding	Angle is not near 0° or 90°	Adjust the device to an angle close to 0° or 90°.

11. Maintenance

- Clean the device with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- Keep the laser aperture clean and free from dust or debris.
- Store the device in its protective pouch in a cool, dry place when not in use.
- Avoid dropping the device or subjecting it to strong impacts.

12. Warranty and Support

YGiTK products are manufactured to high-quality standards. For warranty information or technical support, please refer to the warranty card included with your product or contact YGiTK customer service through the retailer where the product was purchased.

13. Product Video

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Video 13.1: An official product video from YGiTK demonstrating the features and usage of the Magnetic Digital Angle Gauge with Dual Laser Level, including wall mounting, laser modes, angle measurement, and charging.

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