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YGiTK KTY006

YGiTK Digital Inclinometer KTY006 User Manual

Model: KTY006

1. INTRODUCTION

The YGiTK Digital Inclinometer KTY006 is a versatile angle measurement device designed for precision tasks in woodworking, construction, decoration, and DIY projects. This manual provides comprehensive instructions for the safe and effective use of your inclinometer, ensuring accurate measurements and optimal performance.



Image 1.1: The YGiTK Digital Inclinometer KTY006, showcasing its compact design, laser lines, and included carrying bag.

2. PRODUCT OVERVIEW

2.1. Package Contents

Upon unboxing, please verify that all items listed below are present and in good condition:

- 1 x YGiTK Digital Inclinometer KTY006
- 1 x Type-C Charging Cable
- 1 x Carrying Bag
- 1 x User Manual



Image 2.1: The complete package contents of the YGiTK Digital Inclinerometer KTY006, including the device, charging cable, carrying bag, and user manual.

2.2. Key Features

- **Accurate Measurement:** Measuring range of $4 \times 90^\circ$ with an accuracy of $\pm 0.1^\circ$ at 0° and 90° , and $\pm 0.2^\circ$ for other angles. Resolution of 0.05° .
- **Dual Laser Function:** Emits horizontal laser lines for clear marking and can be used as a laser level. Laser class 2 (IEC/EN 60825-1/2014).
- **LCD Display:** Equipped with an LED-backlit display for clear readings in various lighting conditions.
- **Rechargeable Battery:** Built-in 340mAh rechargeable battery with Type-C charging, providing up to 7 hours of continuous use.
- **Magnetic Base:** Features 4 built-in magnets on the left, right, bottom, and back for secure attachment to metal surfaces.
- **Water Resistance:** IP54 rated for protection against dust and splashing water.

MULTIFUNCTIONAL DIGITAL LEVEL BOX

Accurate, efficient and convenient measurements



LCD screen



4*90° Measuring



Waterproof IP54



0.01 Accuracy



Resolution 0.05°



Typ-c charging



Angle finder



Unit conversion

Image 2.2: A detailed diagram illustrating the dimensions and key features of the YGiTK Digital Inclinometer KTY006.

3. SETUP

3.1. Initial Charging

Before first use, fully charge the inclinometer. Connect the provided Type-C charging cable to the device's charging port and a compatible USB power source (e.g., PC, laptop, USB charger). A full charge takes approximately 2.5 hours.

TYPE-C FAST CHARGING

Charging in 2 hours, long battery life of 7 hours



Image 3.1: The YGiTK Digital Inclinometer KTY006 being charged via its Type-C port.

3.2. Power On/Off

Press the **ON/OFF** button to power the device on or off. The LCD will illuminate upon activation.

4. OPERATING INSTRUCTIONS

4.1. Basic Angle Measurement

1. Place the inclinometer on the surface you wish to measure.
2. The LCD will display the current angle relative to the horizontal plane.

4.2. Zero Calibration

To set a relative zero point:

1. Place the inclinometer on the desired reference surface.
2. Press the **ZERO** button. The display will show 0.00°, indicating that this surface is now the reference for

subsequent measurements.

4.3. Hold Function

Press the **HOLD** button to freeze the current measurement on the display. Press it again to release the hold and resume live measurement.

4.4. Unit Conversion (Tilt%)

Press the **HOLD/Tilt%** button to switch between angle (degrees) and slope (percentage) display modes.

4.5. Laser Function

To activate the dual laser lines, press the **ON/OFF** button briefly after the device is powered on. The laser lines will project horizontally from the sides of the device. Press the **ON/OFF** button again to turn off the lasers.

SPORTS DUAL LASERS

Makes hanging decorations a piece of cake



Image 4.1: The inclinometer utilizing its dual laser function to assist in aligning objects, such as picture frames.

4.6. Magnetic Attachment

The inclinometer features strong magnets on four sides, allowing it to be securely attached to ferrous metal surfaces

for hands-free operation. This is particularly useful for tasks involving miter saws, band saws, or table saws.



Image 4.2: The inclinometer demonstrating its magnetic attachment capability on a window frame, showing measurements at different angles.

4.7. LCD Display Overview

The LCD provides clear visual feedback on measurements, battery status, and mode indicators.

LCD DISPLAY

Readable in the dark or in bright light



Image 4.3: An illustration of the LCD display and button functions on the YGiTK Digital Inclinometer KTY006.

5. MAINTENANCE

5.1. Cleaning

Wipe the device with a soft, damp cloth. Do not use abrasive cleaners or solvents. Ensure the device is dry before storage.

5.2. Storage

Store the inclinometer in its carrying bag in a cool, dry place away from direct sunlight and extreme temperatures. Remove the device from the carrying bag if it is accidentally powered on to prevent battery drain.

5.3. Battery Care

To prolong battery life, avoid fully discharging the battery frequently. Recharge the device regularly, especially if it has not been used for an extended period.

6. TROUBLESHOOTING

6.1. "Err" Display

If the display shows "Err", it indicates that the device is positioned at an angle greater than 30 degrees from its intended measurement plane, or it is not stable. Ensure the inclinometer is placed firmly on a stable surface within its operational range.



Image 6.1: Visual guide for correct and incorrect measuring positions, explaining the "Err" display.

6.2. Dim Laser

If the laser appears dim, ensure the battery is fully charged. In very bright environments, the laser lines may be less visible. Consider using the device in a shaded area or adjusting ambient lighting.

6.3. Inaccurate Readings

If readings appear inaccurate, perform a zero calibration on a known level surface. Ensure the device is clean and free from debris that might interfere with its placement.

7. SPECIFICATIONS

Feature	Specification
Measuring Range	4 x 90°
Accuracy	±0.1° (at 0° and 90°), ±0.2° (for other angles)
Resolution	0.05°
Water Resistance	IP54
Power Supply	340mAh Rechargeable Battery (Lithium)
Charging Port	Type-C
Continuous Use Time	Up to 7 hours (after 2.5 hours charge)
Laser Class	Class 2 (IEC/EN 60825-1/2014)
Material	Aluminum
Item Weight	160 g
Package Dimensions	12.2 x 10.3 x 3.9 cm
Model Number	KTY006

8. SAFETY INFORMATION

- Do not stare directly into the laser beam.
- Avoid pointing the laser beam at people or animals.
- Do not disassemble or modify the device. Unauthorized modifications may result in injury or damage to the product.
- Keep the device out of reach of children.
- Use the device only for its intended purpose as an angle measurement tool.

9. WARRANTY AND SUPPORT

Information regarding product warranty and customer support was not provided in the source data. Please refer to the product packaging or the retailer's website for details on warranty coverage and how to contact customer support for your YGiTK Digital Inclinometer KTY006.