Kynup KY-21B

Kynup Digital Caliper (6-Inch/150mm) Instruction Manual

Model: KY-21B

1. Introduction

Thank you for choosing the Kynup Digital Caliper. This precision measuring tool is designed for accurate measurements in various applications, including jewelry, household tasks, DIY projects, and woodworking. Constructed from high-strength stainless steel, it offers durability and reliable performance. This manual provides essential information for the proper setup, operation, and maintenance of your digital caliper.

2. Product Features

- **High Precision:** Measuring range of 0-6 inches (0-150mm) with an accuracy of ±0.001 inch (0.02mm) and a resolution of 0.0005 inch (0.01mm).
- **Durable Construction:** Made from first-class stainless steel with a splash-proof screen and anti-rust properties. Features a strong frame with a lockable head.
- **Multiple Measurement Modes:** Capable of measuring outside diameter, inside diameter, depth, and step.
- **3-Unit Conversion:** Easily switch between inches, millimeters, and fractions.
- **Extended Battery Life:** Equipped with a complete power-off button for zero battery consumption when off, ensuring a longer service life. Features an auto-shutdown function after 6 minutes of inactivity.
- **Convenient Power:** Comes with 3 LR44 batteries (one installed, two spare) and a small screwdriver for easy battery replacement.

3. Product Components and Nomenclature

Familiarize yourself with the different parts of your Kynup Digital Caliper:



Figure 1: Kynup Digital Caliper Labeled Parts. Key components include the outside diameter jaws, inside diameter jaws, depth blade, LCD display, On/Off switch, Zero switch, mm/in/F (unit conversion) switch, slider clamp screw, thumb roller, and battery compartment.

1. **Outside Diameter Jaws:** Used for external measurements.
2. **Inside Diameter Jaws:** Used for internal measurements.
3. **Depth Blade:** Used for depth measurements.
4. **Step Measuring Blade:** Used for step measurements.
5. **LCD Display:** Shows measurement readings.
6. **ON/OFF Switch:** Powers the caliper on or off.
7. **ZERO Switch:** Sets the display to zero at any position.
8. **mm/in/F Switch:** Toggles between millimeter, inch, and fractional inch units.
9. **Thumb Roller:** Allows for fine adjustment of the measuring jaws.
10. **Slider Clamp Screw:** Locks the measuring jaws in place.
11. **Battery Compartment:** Houses the LR44 battery.

4. Setup

4.1. Battery Installation

Your Kynup Digital Caliper comes with one LR44 battery pre-installed and two spare batteries. If the display does not turn on or shows a low battery indicator, follow these steps to replace the battery:

1. Locate the battery compartment cover on the back of the LCD display unit.
2. Use the provided small screwdriver to loosen the screw on the battery cover.
3. Carefully remove the battery cover.
4. Remove the old LR44 battery.
5. Insert a new LR44 battery with the positive (+) side facing up.
6. Replace the battery cover and tighten the screw with the screwdriver.



Figure 2: Battery replacement process and key features. The top-left panel illustrates using the provided screwdriver to replace the LR44 battery. The top-right panel highlights the high-strength stainless steel construction. The bottom-left panel shows an accurate measurement on the digital display. The bottom-right panel emphasizes the clear scale for easy reading.

4.2. Initial Power On

Press the **ON/OFF** button to turn on the caliper. The LCD display should show a reading, typically 0.00mm or 0.000in.

5. Operating Instructions

5.1. Power On/Off

- Press the **ON/OFF** button to turn the caliper on.
- Press the **ON/OFF** button again to completely power off the caliper. This feature ensures no battery drain when the tool is not in use.
- The caliper will automatically shut off after 6 minutes of inactivity to conserve battery life.

5.2. Zero Setting

To ensure accurate measurements, always zero the caliper before use or when changing measurement points:

1. Close the measuring jaws completely.
2. Press the **ZERO** button. The display should now read 0.00.
3. You can also set the zero point at any position along the scale for relative measurements.

5.3. Unit Conversion

Press the **mm/in/F** button to cycle through the measurement units: millimeters (mm), inches (in), and fractional inches (F).



Figure 3: Three-unit conversion capability. The main display shows a measurement in millimeters, with smaller inset displays showing the same measurement converted to inches and fractional inches.

5.4. Measuring Methods

The Kynup Digital Caliper supports four primary measurement types:

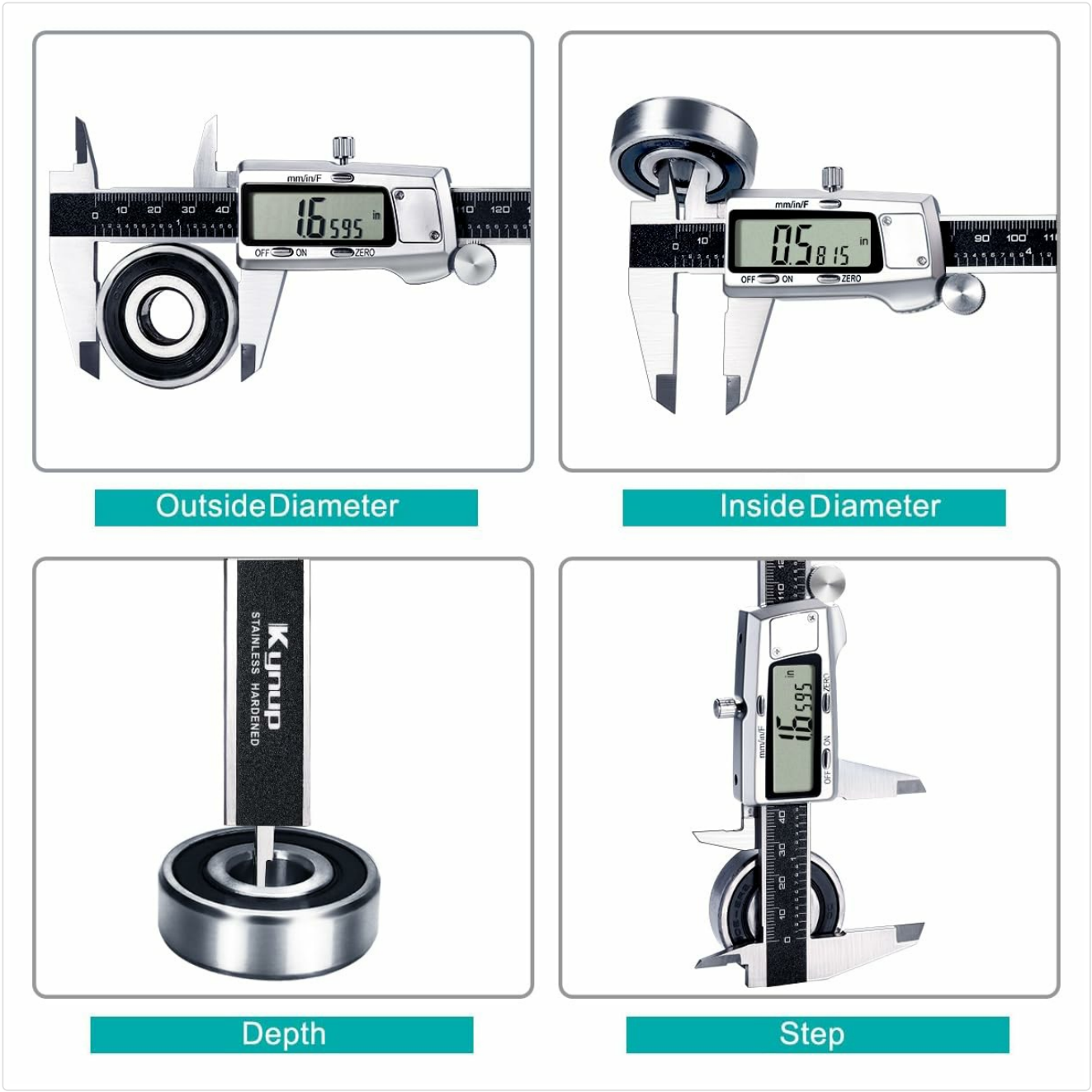


Figure 4: Four measurement methods. The top-left panel shows measuring outside diameter, top-right shows inside diameter, bottom-left shows depth, and bottom-right shows step measurement.

- **Outside Diameter:** Use the large jaws to measure the external dimensions of an object.
- **Inside Diameter:** Use the small upper jaws to measure the internal dimensions of an object.
- **Depth Measurement:** Use the depth blade at the end of the sliding jaw to measure the depth of holes or steps.
- **Step Measurement:** Use the step measuring blade (the end face of the fixed jaw) to measure the height of steps or shoulders.

5.5. Locking Mechanism

The slider clamp screw allows you to lock the measuring jaws at a specific position. This is useful for retaining a measurement or for marking purposes.

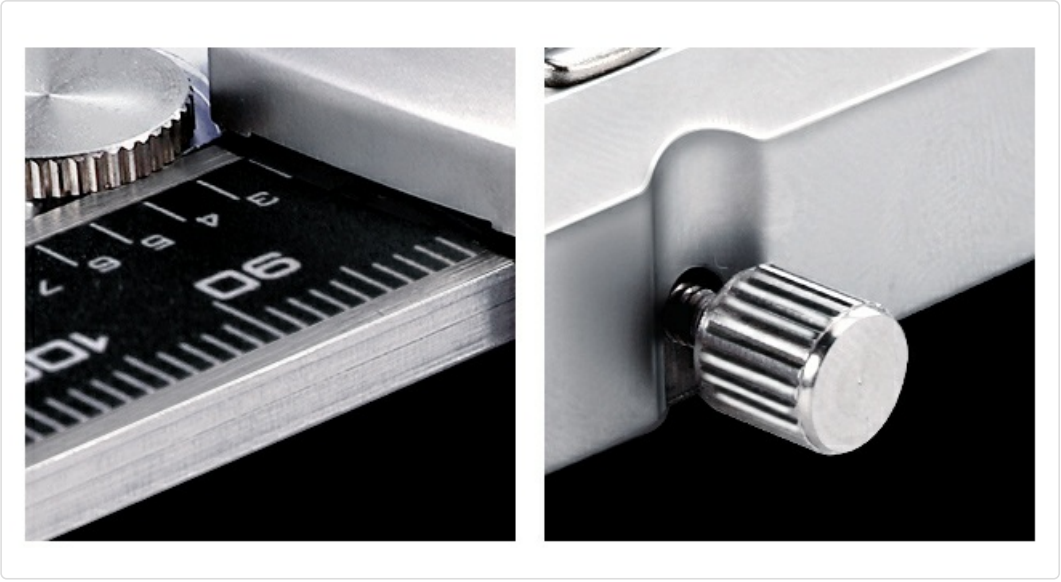


Figure 5: Close-up of the locking screw on the digital caliper.

6. Maintenance

- Keep the caliper clean and dry. Wipe the measuring surfaces with a clean, dry cloth after each use.
- Avoid exposing the caliper to direct sunlight, extreme temperatures, or high humidity.
- Do not apply any electric pressure on any part of the caliper.
- For long-term storage, remove the battery to prevent leakage.
- If the display shows a flashing digit, the battery is low and needs replacement.



Figure 6: Battery life comparison with true outage (complete power off) versus false outage (standby).

7. Troubleshooting

Problem	Cause	Solution
Displaying doesn't change or flashing when the movable jaw is moved.	Accidental trouble in circuit.	Take out battery and re-install after 30 seconds.
Less accurate than specified (error within ±0.01mm).	Dirt in the slider.	Remove slider cover and its assembly, clean the slider with clean compressed air (DMQ-01).
No display on LCD or less accurate than specified (error more than 0.01mm) or flashing digits randomly.	1. Battery is low. 2. Battery is installed backwards. 3. Replace battery.	1. Remove battery cover and re-install the battery. 2. Check battery polarity. 3. Replace battery.

8. Specifications

Feature	Detail
Brand	Kynup
Model Number	KY-21B
Material	Stainless Steel
Product Dimensions	9.29"L x 3.03"W
Measurement Accuracy	±0.001" / 0.02mm
Resolution	0.0005" / 0.01mm
Measuring Range	0-6 inches / 0-150mm
Units	Inches, Millimeters, Fractions
Power Source	3 x LR44 batteries (included)
Item Weight	7 ounces

9. What's in the Box

- 1 x Kynup Digital Caliper (Model KY-21B)
- 1 x Protective Storage Case
- 2 x Extra LR44 Button Cells (3 total, 1 pre-installed)
- 1 x Small Screwdriver for battery replacement

10. Additional Resources

10.1. Product Overview Video

Your browser does not support the video tag.

Video: Kynup Digital Caliper Black - This official seller video provides a concise overview of the digital caliper, demonstrating its key features and basic operation, including the four measurement methods and unit conversion.

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