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› SHAHE Electronic Digital Caliper 0-600mm/24" User Manual

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Model: 0-600mm/24"

1. INTRODUCTION

This manual provides instructions for the proper use and maintenance of your SHAHE Electronic Digital Caliper, Model 0-600mm/24". This precision measuring instrument is designed for accurate internal, external, and depth measurements in both metric and imperial units. Constructed from hardened stainless steel, it features an IP54 waterproof rating, a large LCD for clear readings, and a glass fixed grid for stability and durability.



Figure 1: Full view of the SHAHE Electronic Digital Caliper.

2. PRODUCT FEATURES

- **Measuring Range:** 0-600mm (0-24 inches)
- **Resolution:** 0.01mm (0.0005 inches)
- **Accuracy:** $\pm 0.05\text{mm}$ (± 0.002 inches)
- **Material:** Hardened Stainless Steel
- **Protection:** IP54 Waterproof
- **Display:** Large LCD for easy reading
- **Functions:** Auto-off, Zero-setting at any position, mm/inch conversion, Data Output, ABS (Absolute measurement)
- **Design:** Glass fixed grid for stability, knurled locking screw for secure measurement.



Figure 2: Close-up of the digital display and control buttons.

3. SETUP

3.1 Unpacking

Carefully remove the digital caliper from its protective packaging. Inspect the instrument for any signs of damage. The package should include:

- 1 x Digital Caliper
- 1 x Instruction Manual
- 1 x Protective Case

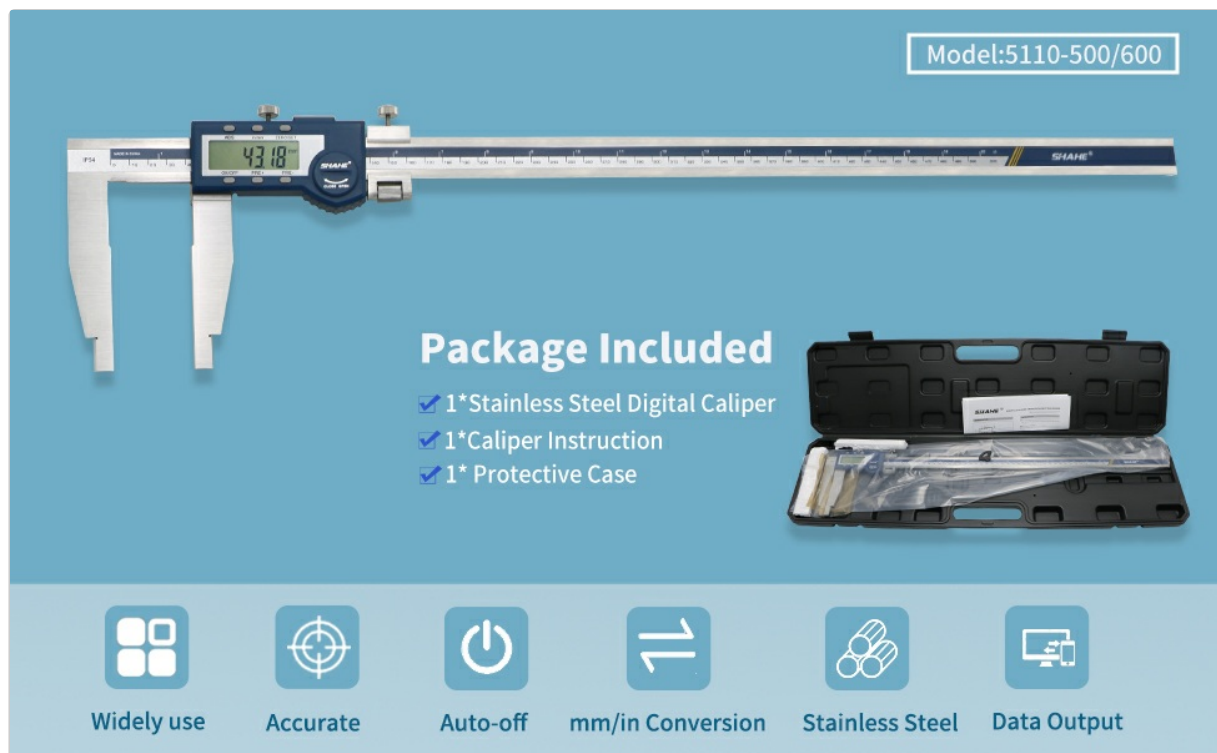


Figure 3: Package contents of the SHAHE Digital Caliper.

3.2 Battery Installation

The caliper typically comes with a battery pre-installed or included separately. If not installed, locate the battery compartment cover on the digital unit, usually on the back or side. Open the cover, insert the battery (typically a CR2032 coin cell) with the positive (+) side facing up, and close the cover securely.

3.3 Initial Power On and Zero Setting

1. Press the **ON/OFF** button to power on the caliper.
2. Close the measuring jaws completely.
3. Press the **ZERO/SET** button to set the display to zero. This establishes the reference point for all subsequent measurements.

4. OPERATING INSTRUCTIONS

4.1 Basic Measurement

The digital caliper can perform four types of measurements:

- **External Measurement:** Use the large jaws to measure outside dimensions.
- **Internal Measurement:** Use the small jaws to measure inside dimensions.
- **Depth Measurement:** Use the depth rod to measure depths.
- **Step Measurement:** Use the step face at the end of the main beam to measure steps.

Ensure the measuring surfaces are clean before taking a measurement. Apply light, consistent pressure when closing the jaws on the object.

4.2 Unit Conversion (mm/inch)

Press the **in/mm** button to switch between millimeters and inches. The selected unit will be displayed on the LCD.

4.3 ABS (Absolute) Measurement

The ABS function allows you to set a zero point at any position, enabling incremental measurements from

that point. Press the **ABS** button to activate this mode. The display will show 'ABS' to indicate it is active. Press it again to return to normal measurement mode.

4.4 Data Output

This caliper supports data output. Refer to the specific data cable and software instructions for connecting the caliper to a computer or data logger for measurement recording.

4.5 Locking Screw

The knurled locking screw can be tightened to hold the slider in position, securing a measurement for later reading or transfer.

Your browser does not support the video tag.

Video 1: Demonstration of the SHAHE Digital Caliper's measurement capabilities, including internal and external measurements.

5. MAINTENANCE

5.1 Cleaning

Regularly clean the measuring surfaces and the main beam with a clean, dry, lint-free cloth. Avoid using solvents or abrasive cleaners, as these can damage the display or the caliper's finish. The IP54 rating indicates protection against dust and splashing water, but it is not fully submersible.

5.2 Storage

When not in use, store the caliper in its protective case in a dry, clean environment. Avoid exposing it to direct sunlight, extreme temperatures, or high humidity. Ensure the jaws are slightly open to prevent pressure on the measuring surfaces.



Figure 4: The SHAHE Digital Caliper stored in its protective case.

5.3 Battery Replacement

When the display becomes dim or erratic, it is time to replace the battery. Follow the instructions in Section 3.2 for battery installation. Dispose of old batteries responsibly.

6. TROUBLESHOOTING

- **No Display / Caliper Not Turning On:**

- Check if the battery is correctly installed with the correct polarity.
- Replace the battery with a new one.

- **Inaccurate Readings:**

- Ensure the measuring surfaces are clean and free from dust or debris.
- Perform a zero-setting procedure (Section 3.3).
- Check for any physical damage to the jaws or the main beam.
- Avoid excessive force when taking measurements.

- **Display Flashing or Erratic:**

- The battery may be low; replace it.
- Ensure the caliper is not exposed to strong electromagnetic interference.

7. SPECIFICATIONS

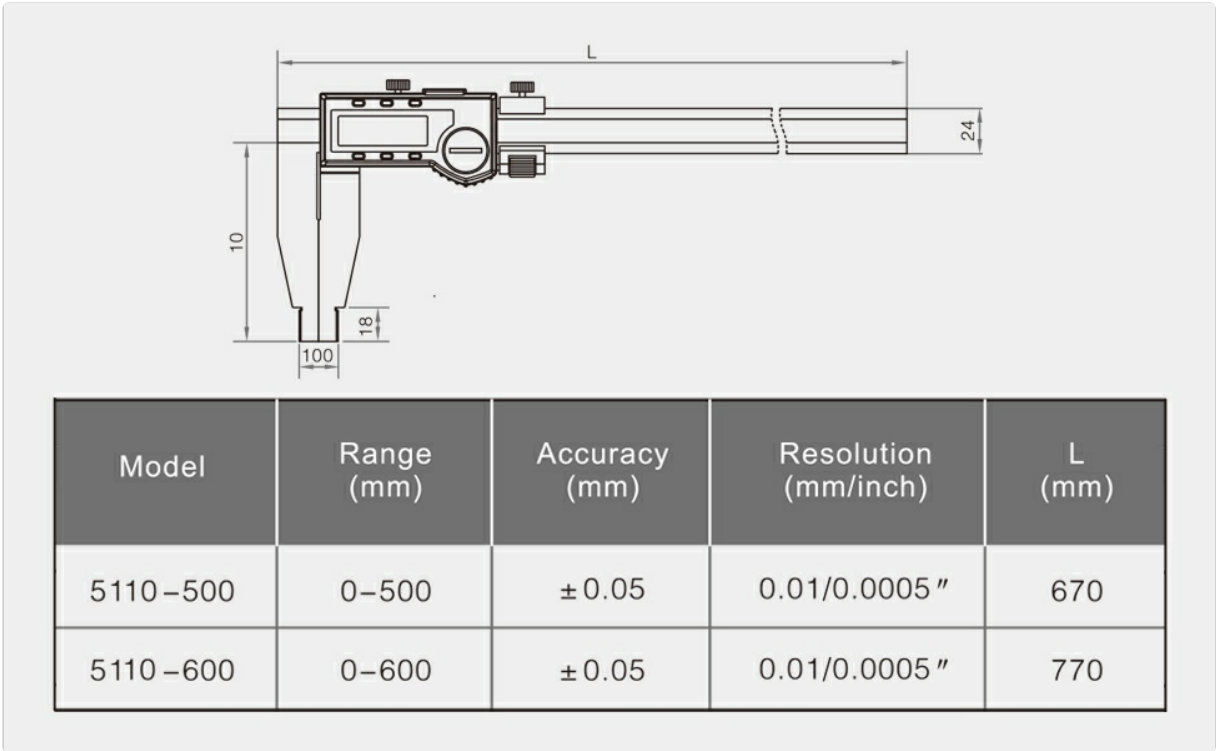


Figure 5: Detailed specifications for SHAHE Digital Calipers, including Model 5110-600.

Specification	Value
Brand	SHAHE
Model	0-600mm/24" (Part Number: 5110-600)
Material	Stainless Steel
Measuring Range	0-600mm / 0-24 inches
Resolution	0.01mm / 0.0005 inches
Accuracy	±0.05mm / ±0.002 inches
Protection Rating	IP54 (Dust and splash water protected)
Power Source	Button Cell Battery (e.g., CR2032)

8. WARRANTY AND SUPPORT

8.1 Warranty Information

This SHAHE Digital Caliper is covered by a standard manufacturer's warranty against defects in materials and workmanship. Please retain your purchase receipt as proof of purchase. For specific warranty terms and duration, refer to the documentation included with your product or contact SHAHE customer support.

8.2 Customer Support

For technical assistance, troubleshooting, or warranty claims, please contact SHAHE Measuring Tools customer service. Contact information can typically be found on the product packaging, the manufacturer's official website, or through your retailer.