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DITRON IP54 with Absolute

DITRON IP54 Waterproof Digital Caliper 6-inch (150mm) Instruction Manual

Model: IP54 with Absolute

Setup Operation Maintenance Troubleshooting Specifications Warranty & Support

1. Setup

1.1 Package Contents

Upon opening the sturdy plastic case, verify that all items are present:

- 1 DITRON Digital Caliper
- 1 Sturdy Plastic Case
- 1 Spare CR2032 Lithium Battery
- 1 Mini Screwdriver
- 1 User Manual



Image 1.1: The DITRON Digital Caliper comes with a protective case, a spare battery, and a mini screwdriver.

1.2 Battery Installation

The digital caliper uses a CR2032 3V Lithium Button Cell. One battery is typically pre-installed, and a spare is provided. To install or replace the battery:

1. Locate the battery compartment cover on the back of the caliper's display unit.
2. Use the provided mini screwdriver to unscrew the small screw securing the battery cover.
3. Remove the cover and insert the CR2032 battery with the positive (+) side facing upwards.
4. Replace the battery cover and secure it with the screw.



Image 1.2: The battery compartment is easily accessible for CR2032 battery replacement.

▶ **Watch video online**
DITRON Digital Caliper IP54 Waterproof

Video 1.1: This video demonstrates the unboxing, battery installation, and initial setup of the DITRON Digital Caliper, including the ABS/Origin function.

2. Operation

2.1 Basic Functions

The DITRON Digital Caliper features several buttons for easy operation:

- **ON/OFF Button:** Press to turn the caliper on or off. The caliper will automatically turn off if no action is taken within 5 minutes.
- **ZERO Button:** Press to set the display to zero at any point, allowing for differential measurements.
- **Inch/MM Button:** Press to switch between inch and millimeter units.
- **ABS (Absolute) / ORIGIN Button:** This function utilizes absolute memory technology. Once set, the ORIGIN button tracks its origin point. Whenever the caliper is turned on, the LCD displays the actual slider position, ready for measurement without needing to re-zero.

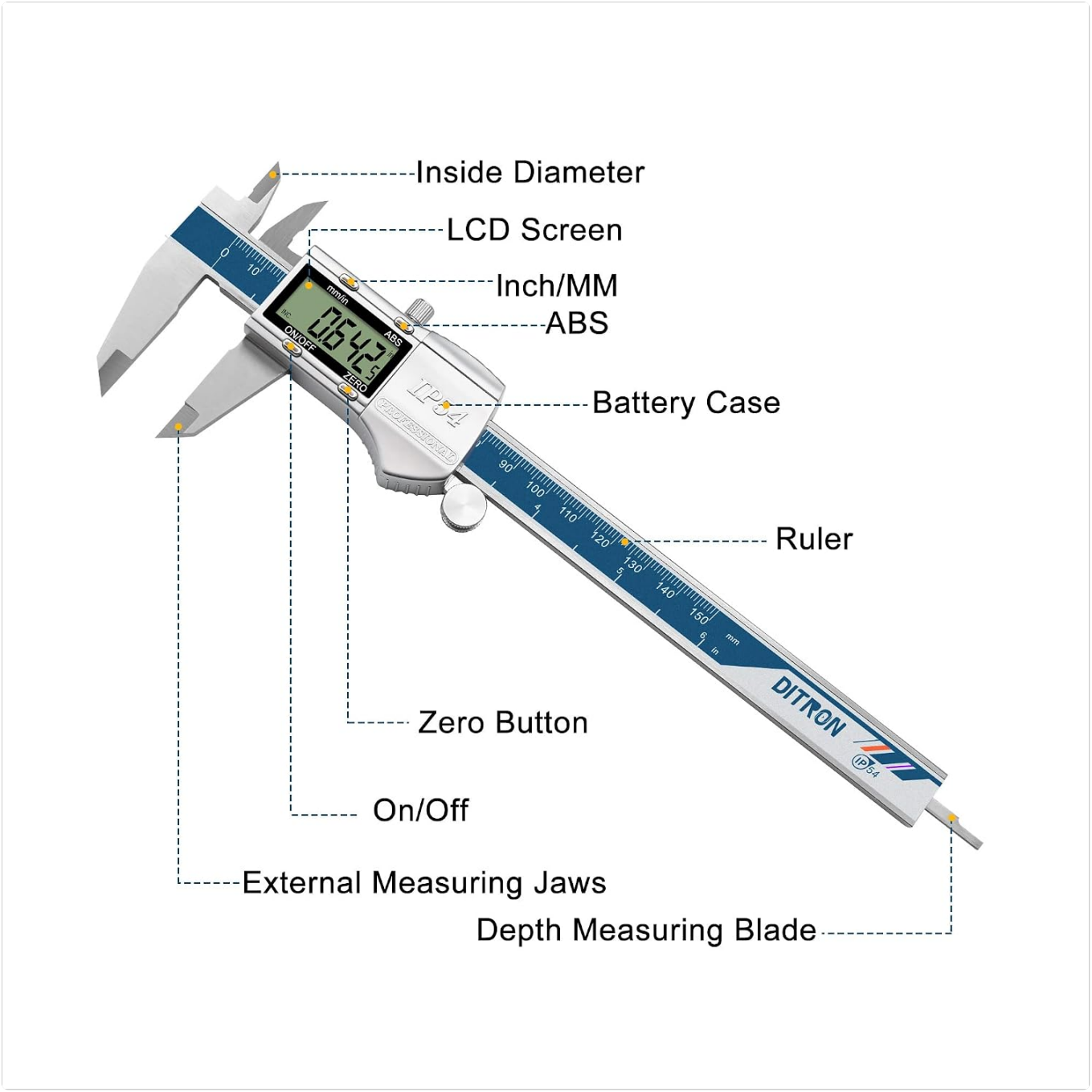

Image 2.1: Key components and buttons of the DITRON Digital Caliper.

2.2 Measuring Techniques

The caliper is designed for versatile measurements:

- **Outside Diameter/Length:** Use the external measuring jaws.
- **Inside Diameter/Width:** Use the internal measuring jaws.
- **Depth:** Use the depth measuring blade.
- **Step:** Use the step measuring faces.

Ensure the measuring surfaces are clean and free of debris before taking measurements. Use the thumb roller for fine adjustments and the locking screw to hold a measurement in place.



Image 2.2: Examples of outside, inside, step, and depth measurements.

2.3 Accuracy

The DITRON Digital Caliper provides high accuracy measurements with a tolerance of ±0.001"/0.02mm. For best results, ensure the caliper is clean and properly calibrated (zeroed) before each use.

▶ **Watch video online**
Digital calipers measuring tool IP54

Video 2.2: This video demonstrates the accuracy of the DITRON Digital Caliper using gauge blocks for verification.

3. Maintenance

3.1 Cleaning

To maintain accuracy and prolong the life of your digital caliper, keep it clean:

- Wipe the measuring surfaces and beam with a dry, lint-free cloth after each use.
- If the sensor has dirt or deposits, carefully remove the battery cover and slider assembly. Blow off the sensor face with clean pressurized air (e.g., from a can of compressed air) and then clean with a dry, lint-free cloth.
- Avoid using solvents or harsh chemicals, as these can damage the electronic components or the finish.

3.2 Battery Replacement

The CR2032 3V battery typically lasts about 1.5 years. Replace the battery when the display becomes dim, flickers, or if the caliper exhibits erratic readings. Refer to Section 1.2 for detailed battery installation instructions.

4. Troubleshooting

Problem	Possible Cause	Solution
Every digit jumps simultaneously	Battery voltage is under 1.45 V.	Remove battery cover and replace battery.
Display cannot count	Faulty circuit.	Remove battery, wait 30 seconds, then put battery back into compartment.
Display shows 000.00 or IN 00.000	Function buttons and sliders signal end may have shorted out.	Remove the cover, ensure button springs are in place with rubber covers. Contact must be unobstructed.
Function buttons not active	Springs or rubber covers may be out of shape due to excessive pressing.	Refer to the solution above for 'Display shows 000.00 or IN 00.000'.
Reading error for full length is ≥ 0.1 mm	Sensor may have dirt or deposits.	Remove cover and slider assembly. Blow off sensor face with clean pressurized air (251 kg/cm²) and clean with a dry, lint-free cloth.
No display on LCD screen	Poor battery contact or battery voltage under 1.3 V.	Check battery compartment, clean if necessary. Replace with a new CR2032 battery.

5. Specifications

- **Brand:** DITRON
- **Model Number:** IP54 with Absolute
- **Material:** Stainless Steel

- **Product Dimensions:** 9.8"L x 3.74"W
- **Measuring Range:** 0-6 inch / 0-150mm
- **Resolution:** 0.0005" / 0.01mm
- **Measurement Accuracy:** ±0.001" / 0.02mm
- **Repeatability:** ±0.0005" / 0.01mm
- **Display:** Large LCD display
- **Waterproof Rating:** IP54 (Dustproof and splash-proof)
- **Power Source:** 1 CR2032 Lithium Button Cell (included)
- **Item Weight:** 12.6 ounces
- **GTIN/UPC:** 635411909422

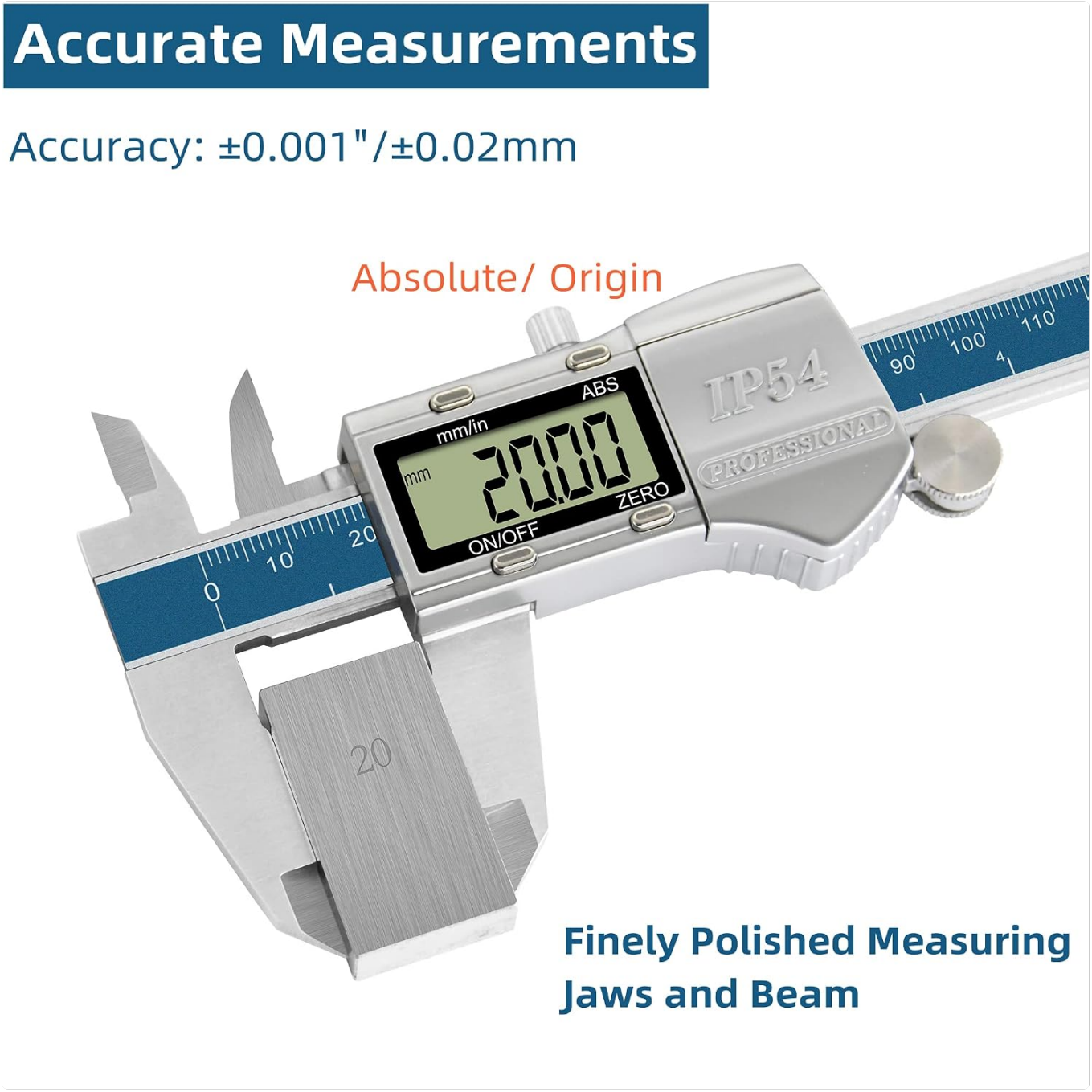

Image 5.1: The DITRON Digital Caliper is designed for accurate measurements.



Image 5.2: The caliper features IP54 waterproof and dustproof protection.

6. Warranty and Support

For specific warranty information or technical support regarding your DITRON Digital Caliper, please refer to the documentation included in your product package or contact DITRON customer service directly. Contact details are typically available on the manufacturer's official website or through your point of purchase.

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