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VINCA DCLA-0805 8"

VINCA Digital Caliper User Manual

Model: DCLA-0805 8" | Brand: VINCA

1. Introduction

The VINCA DCLA-0805 8-inch digital caliper is a precision measuring instrument designed for accurate measurements in various applications, from DIY projects to professional use. It features instant conversion between inch, metric, and fractional units, a durable stainless steel construction, and a large LCD screen for clear readings. This manual provides essential information on the setup, operation, maintenance, and troubleshooting of your digital caliper.



Image: The VINCA DCLA-0805 8-inch Digital Caliper, showcasing its sleek design and digital display.

2. Product Features

- **Precision Measurement with Versatile Conversion:** Offers instant inch, metric, and fraction conversion, suitable for diverse measurement needs.
- **Durable & Smooth Sliding Design:** Constructed from fine-polished stainless steel with an advanced depthometer groove for smooth movement and accurate results.
- **Enhanced Accuracy with Glass Scale:** Features a high-precision glass scale for superior measurement accuracy and stability.
- **High Accuracy & Large Display:** Measures from 0-8 inches / 200mm with an extra-large 1/2" x 1 1/2" (13mm x 38mm) LCD screen. Accuracy: ±0.001" / 0.03mm. Resolution: 0.0005" / 0.01mm, 1/128".
- **RS232 Data Transfer Capability:** Equipped with an RS232 data transfer port for seamless data transmission to a PC (requires "VINCA DTCR-03" cable, sold separately). *Do not use a regular USB cable.*
- **Ready to Use with Extra Battery Included:** Comes with one installed 1.5V LR44 battery and one spare battery for extended use.



Image: Illustration of the three measuring modes: Fraction, Inch, and Millimeter, as displayed on the LCD screen.

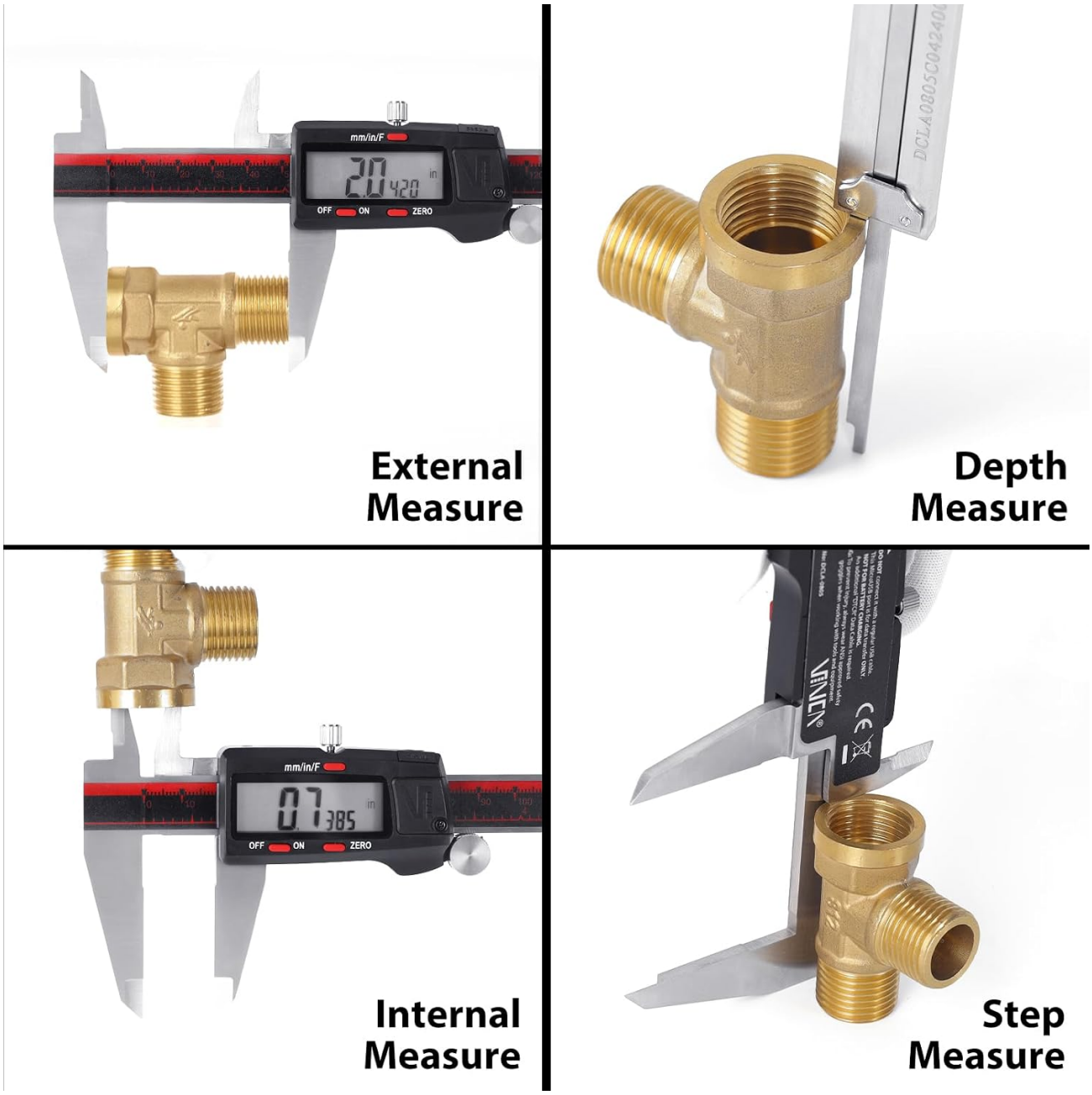


Image: Examples of external, depth, internal, and step measurements using the digital caliper.

3. What's in the Box

- 1x VINCA DCLA-0805 Digital Caliper
- 1x Durable red storage box
- 1x Installed 1.5V LR44 battery
- 1x Spare 1.5V LR44 battery
- 1x User Guide (this manual)

4. Setup

4.1. Battery Installation

1. Locate the battery compartment cover on the digital caliper's display unit.
2. Slide the cover open.
3. Insert one 1.5V LR44 battery with the positive (+) side facing up.

4. Close the battery compartment cover securely.
5. Press the "ON" button to power on the caliper.



Image: A close-up view of the digital caliper's battery compartment, showing the LR44 battery and the included screwdriver for installation.

4.2. Initial Zeroing

Before taking any measurements, ensure the caliper is properly zeroed:

1. Clean the measuring faces with a soft, lint-free cloth.
2. Close the jaws completely and gently.
3. Press the "ZERO" button. The display should read "0.000" (or "0.00" depending on the unit mode).

5. Operating Instructions

5.1. Power On/Off

- Press the "ON" button to turn on the caliper.

- Press the "OFF" button to turn off the caliper. The caliper also features an auto-off function after a period of inactivity to conserve battery life.

5.2. Unit Conversion

- Press the "mm/in/F" button to cycle through millimeter (mm), inch (in), and fractional inch (F) display modes.

5.3. Taking Measurements

The VINCA digital caliper can perform four types of measurements:

- **External Measurement:** Use the large jaws to measure outside dimensions of objects.
- **Internal Measurement:** Use the small jaws to measure inside dimensions of holes or grooves.
- **Depth Measurement:** Use the depth rod to measure the depth of holes or steps.
- **Step Measurement:** Use the step face at the end of the sliding jaw to measure step distances.

For accurate readings, ensure the measuring faces are clean and apply consistent, gentle pressure.

5.4. Data Transfer (Optional)

The caliper is equipped with an RS232 data transfer port. To transfer measurement data to a PC, you will need the VINCA DTCR-03 Data Cable (sold separately). Connect the cable to the caliper's data port and your computer. Do not use a regular USB cable, as this may damage the unit.



Image: Diagram showing the digital caliper connected to a PC via the VINCA DTCR-03 Data Cable for data transfer.

5.5. Product Overview Video

Your browser does not support the video tag.

Video: An official product video from VINCA (Clockwise Tools) demonstrating the features and operation of the DCLA-0805 digital caliper, including its inch/metric/fractions conversion capabilities.

6. Maintenance

- **Cleaning:** Regularly clean the measuring surfaces and the beam with a clean, soft, lint-free cloth. Avoid using solvents or harsh chemicals.
- **Battery Replacement:** When the display numbers blink, jump, become dim, or show no display, it indicates a low battery. Replace the 1.5V LR44 battery as described in the Setup section.
- **Storage:** Store the digital caliper in its protective case when not in use. It is recommended to store the caliper with the jaws closed and the thumb wheel locked to prevent accidental activation and battery drain.
- **Avoid Impact:** Do not drop the caliper or subject it to strong impacts, as this can affect its accuracy and

functionality.

7. Troubleshooting

Problem	Possible Cause	Solution
Display numbers blink, jump, become dim, or no display.	Low battery.	Replace the 1.5V LR44 battery.
Inaccurate or inconsistent readings.	Dirt or debris on measuring faces; improper zeroing; low battery.	Clean measuring faces thoroughly. Re-zero the caliper. Replace battery if low.
Caliper turns on by itself or battery drains quickly.	Movement of the thumb wheel or sliding jaw when stored unlocked.	Ensure the caliper is stored in a stable position, preferably in its case, and consider locking the thumb wheel if available.

7.1. Troubleshooting Video

Your browser does not support the video tag.

Video: An official video from VINCA (Clockwise Tools) providing guidance on how to fix a malfunction where the digital caliper's display numbers are jumping or behaving erratically.

8. Specifications

Feature	Detail
Model Number	DCLA-0805 8"
Measuring Range	0-8 inches / 200mm
Accuracy	±0.001" / 0.03mm
Resolution	0.0005" / 0.01mm, 1/128"
Material	Stainless Steel
Display	Large LCD Screen (13mm x 38mm)
Battery Type	1.5V LR44 (2 included)
Data Output	RS232 Port (cable sold separately)
Product Dimensions	11.5"L x 0.75"W

9. Warranty and Support

The VINCA DCLA-0805 Digital Caliper comes with a **2-year warranty**. For any product inquiries, technical assistance, or warranty claims, please contact Clockwise Tools Inc., the manufacturer, directly. They offer 24/7 customer service and fast response times.
For more information, visit the official VINCA store on Amazon:VINCA Store

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Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Answered questions about this manual

I have just purchased a VINCA DCLA-0605 digital caliper and I need a calibration certificate for my audit. How can I get one?

Based on the manufacturer's product information, the standard VINCA DCLA-0605 model does not include a calibration certificate in the box. Only specific "C" versions of the product (such as DCLA-0605C, DCLA-0805C, or DCLA-1205C) are...

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