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Neoteck NTK085 Digital Caliper User Manual

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Neoteck NTK085 Digital Caliper

INTRODUCTION

The Neoteck NTK085 Digital Caliper is a very cheap and accurate measuring tool that is also very easy to use. This caliper is great for a lot of different tasks, from do-it-yourself projects to professional precision work. It can measure from 0 to 6 inches (150 mm) and is very accurate to within 0.001 inch (0.02 mm). This digital caliper has a clear LCD display that makes reading measures easy. It was made by Neoteck, a well-known brand in measuring tools. It's made of stainless steel, which makes it strong and long-lasting. The Neoteck NTK085 is small, light, and easy to carry because it only needs one LR44 battery to power it. Since it only costs $25.99, it's a great deal and a great choice for both hobbyists and pros. The caliper came out on August 7, 2017, and it's still a popular choice for people who need accurate and cheap measuring tools.
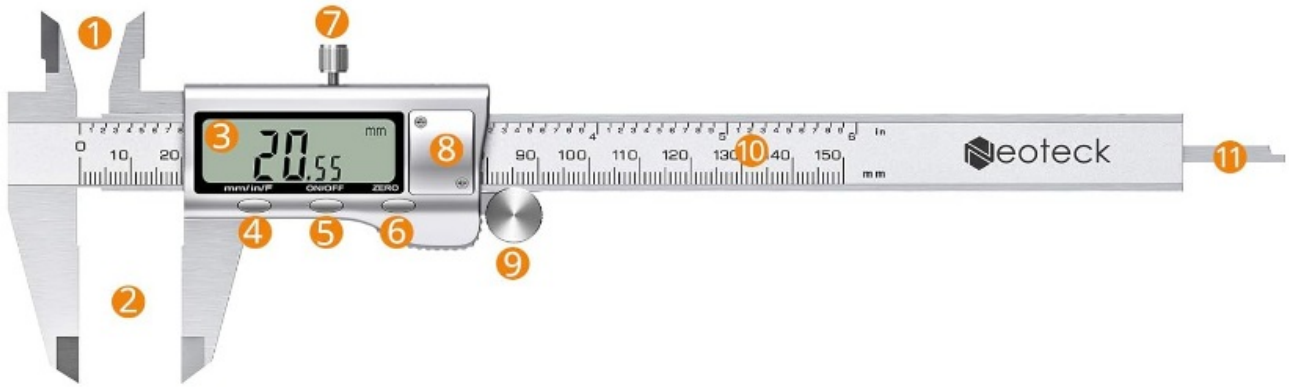
SPECIFICATIONS

Brand	Neoteck
Material	Stainless Steel
Range	6 Inches
Measurement Accuracy	0.001 Inch / 0.02mm
Price	$25.99
Product Dimensions	1.02 x 9.69 x 3.62 inches
Weight	11.4 ounces
Item Model Number	NTK085
Batteries Required	1 LR44 battery
Date First Available	August 7, 2017
Manufacturer	Neoteck
Country of Origin	China

WHAT'S IN THE BOX

- Digital Caliper
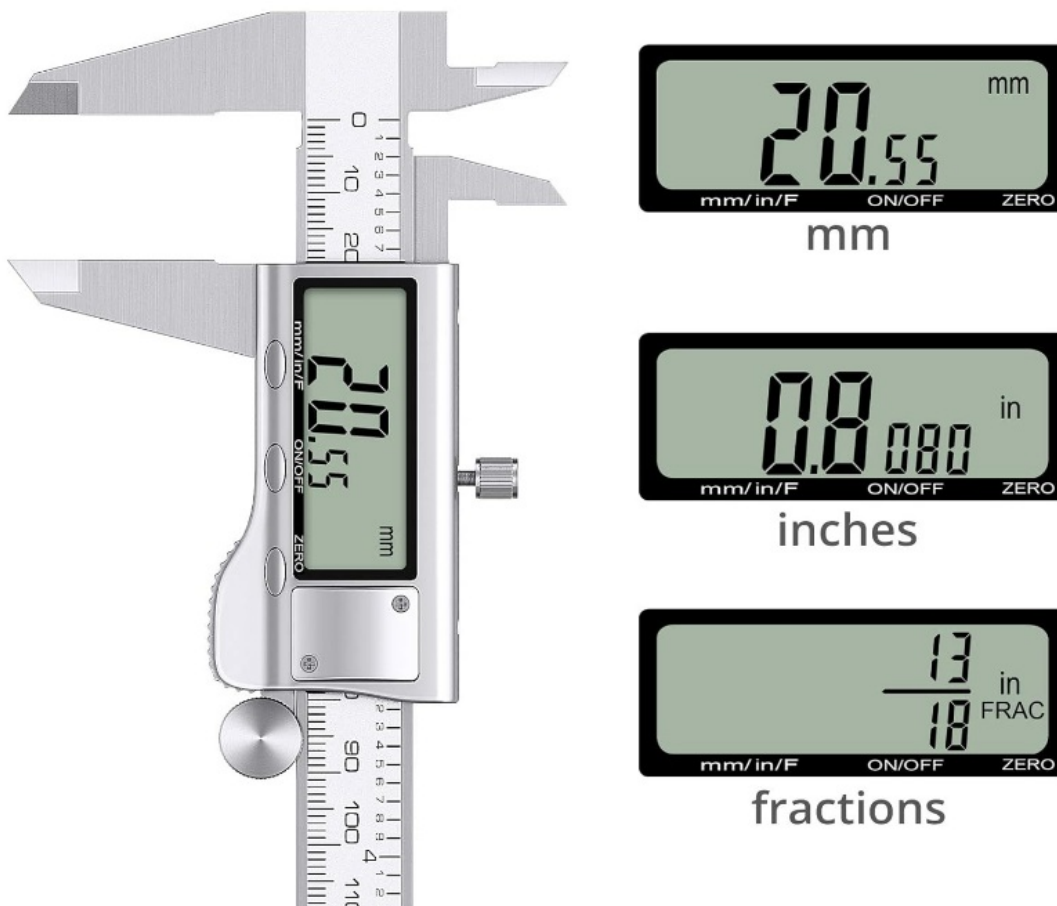- Battery
- User Manual

PRODUCT PARTS

1. Internal Measuring Jaws
2. External Measuring Jaws
3. LCD Display
4. Inch&Metric&Fraction Switch
5. On/Off Switch
6. Zero Switch
7. Slider Clamp Screw
8. Battery Compartment
9. Thumb Roller
10. Inch&Metric Scale
11. Depth Blade

FEATURES

- **Range of Measurements**: The caliper can measure from 0 to 6 inches (150 mm to 2 inches), and its precision of 0.0005 inches (1/128 inch), or 0.01 mm, is very good.
- **High Accuracy**: It's accurate up to ±0.001 inch (0.02 mm), so you can be sure that the numbers you use for your projects are correct.
- **Three Units Conversion**: It's easy to switch between three units of measurement: millimeters, fractions, and inches. This gives you options for different jobs.

Unit Conversion

mm

inches

fractions

- **Large LCD Display**: It has an extra-large, easy-to-read LCD screen that makes it viewable even in low light and makes it easier to use.
- **Construction from Polished Stainless Steel** : Made from polished stainless steel for long-lasting performance, sturdiness, and a smooth sliding action.
- **Measurement Flexibility**: The caliper can measure inside, outside, depth, and step sizes, so you don't have to use several different measuring tools.

4 Test Modes

Inside Diameter

Outside Diameter

Depth

Step

- **Gauges Made of Hardened Tempered Steel**: The feeler gauges are made of hardened tempered steel and are oiled to keep them from rusting or flaking.
- **Auto Shut-Off**: The caliper has a feature that turns it off automatically when it's not being used. This saves battery life.
- **Locking Screw**: It has a locking screw that keeps measures steady after they are written down, so they don't move around while it's being used.
- **Battery**: The caliper comes with an LR44 battery that can power it right out of the box, so it's ready to use.
- **small Screwdriver**: A small screwdriver is included to make changing the batteries easy.
- **Case for Storage**: The caliper and feeler gauges come with a strong plastic case that can be used to store them safely and move them around.
- **Multiple Uses**: The caliper's shape lets you measure both outside and inside diameters, as well as depths and steps.
- **Easy Calibration**: The caliper can be easily set to zero at any time, so you can be sure that the readings are

always correct.

SETUP GUIDE

- **Installing the battery**: Open the section for the battery and put the LR44 battery in, making sure the polarity is right.
- **Starting up**: When the jaws are opened, the caliper turns on by itself. Check the battery or button link if the screen won't turn on.
- **Unit Selection**: To easily change units, press the "unit" button to switch between inches, millimeters, and fractions.
- **Zero Setting**: Press the "zero" button to clear the screen and start a new reading, especially after turning the device on.
- **Getting the Outside Diameter**: To get the outside diameter of something, use the two long teeth.
- **How to Measure the Inside Diameter**: To measure the inside diameter of pipes or holes, use the two tiny jaws.
- **Measurement of Depth**: To find out how deep something is, extend the probe at the bottom of the caliper.
- **Measure Steps**: The step tool lets you find out how high steps or other things are that don't have a flat surface.
- **Loosening the Locking Screw**: To keep the jaws from moving, loosen the locking screw as you measure.
- **To Change to Fractional Measurement**: Press the unit button to switch to fraction mode if you need to measure in fractions.
- **Case Storage**: When you're done using the caliper and feeler gauges, put them in the case that came with them to keep them safe and avoid damage.
- **Turning Off**: The caliper turns off by itself after 5 minutes of not being used. You can also close the teeth to turn it off by hand.
- **Change the Battery**: If the battery dies, open the battery compartment with the small screwdriver and put in a new LR44 battery.
- **When measuring more than one point**: Make sure to return the caliper to zero so that the readings are all the same.
- **Checking the Calibration**: To get exact results, make sure the caliper is set to zero before each use. If you need to, recalibrate.

CARE & MAINTENANCE

- **Remember to keep the caliper clean and dry**: so that the electronics don't get damaged and the measurements are correct.
- **Clean it often**: After each use, wipe the caliper clean with a soft, dry cloth to get rid of any dust, dirt, or oil.
- **Store in Case**: To keep the caliper and feeler gauges safe from dust and water, always keep them in the plastic case that comes with them.
- **Avoid Water**: To keep the caliper from rusting, never put it in water or use it when it's very wet.
- **Take Out the Battery When Not in Use**: If you're going to store the caliper for a long time, take out the battery to keep it from corroding.
- **Do Not Drop**: Be careful when using the caliper and don't drop it to keep it accurate and in good working order.
- **Calibrate Before Use**: To avoid mistakes, make sure the caliper is properly set before each measurement.
- **Avoid Harsh Chemicals**: To clean the caliper, don't use harsh chemicals like cleaners or abrasives, as they can damage the finish or surface.

- **Check for Wear**: Look for signs of damage or wear on the moving parts and jaws on a regular basis that could affect how well they work.
- **Keep Jaws Clean**: To make sure the measure jaws work smoothly, make sure they are clean and free of dust, dirt, and grease.
- **Tighten the Locking Screw**: Always use the locking screw to keep measurements from moving and to make sure they are accurate.
- **Avoid Long-Term sunshine**: To protect the display and materials, store the caliper in a cool, dry place and keep it out of direct sunshine.
- **When to Change the Battery**: You should change the battery as soon as the screen starts to get dim or if the numbers aren't being accurate.
- **Do Not Force Measurements**: If the caliper won't move, do not force the jaws or probe to move. Doing so could damage the tool.
- **Periodic Checks**: Make sure the caliper is working right by measuring known items, like a calibration block, on a regular basis to make sure it is accurate.

TROUBLESHOOTING

Issue	Possible Cause	Solution
Display is blank	Low battery	Replace the **LR44** battery with a new one.
Measurement is inconsistent	Incorrect calibration	Recalibrate the caliper according to the manufacturer's instructions.
Buttons not responding	Dirt or obstruction in buttons	Clean the button contacts using a soft cloth.
Measurements are too large	Caliper not properly zeroed	Press the reset or zero button to recalibrate the tool.
Display flickering	Weak battery or low power	Replace the **LR44** battery with a fresh one.
Reading fluctuates wildly	External interference or dirt on the measuring jaws	Clean the jaws and ensure no interference from external sources.
Units not changing	Mode button malfunction	Check the battery and reset the unit by pressing the mode button.
Caliper is hard to move	Dust or dirt inside the moving parts	Clean the caliper thoroughly and lubricate the moving parts if necessary.
Unit is stuck in one mode	Stuck button or internal error	Reset the caliper or check for button malfunctions.
Not measuring properly	Jaws not aligned or calibrated	Ensure proper alignment of the jaws and recalibrate.
Screen is hard to read	Dirty screen or weak contrast	Clean the screen with a soft cloth and ensure proper lighting.
Display is "ERR"	Internal system failure	Reset the caliper or replace the battery.
Caliper showing wrong unit	Mode settings not adjusted	Press the mode button to switch between **inches** and **millimeters**.
Zero function not working	Battery low or improper calibration	Replace the battery and recalibrate the unit.
Inconsistent readings for small objects	Caliper jaws out of alignment or dirty	Clean the jaws and check alignment for precise measurements.

PROS & CONS

Pros:

- Precision measurement with 0.001 inch / 0.02mm accuracy.
- The affordable price of $25.99, offering great value for money.
- Stainless steel construction ensures long-lasting durability.
- Clear LCD display for easy and precise readings.
- Compact and lightweight design, making it portable and easy to use.

Cons:

- Powered by a small LR44 battery, which may need frequent replacement.
- Limited measuring range of up to 6 inches, not suitable for larger projects.

- Calibration may drift over time, requiring recalibration.
- Digital displays can be prone to flickering under certain lighting conditions.
- May be less durable than higher-end digital calipers in extreme environments.

WARRANTY

The **Neoteck NTK085 Digital Caliper** comes with a **12-month warranty** that covers any defects in materials or workmanship. The warranty does not cover damage due to misuse or mishandling. For any product issues within the warranty period, customers can contact **Neoteck's customer support** for a resolution, whether through a replacement or a refund.

FREQUENTLY ASKED QUESTIONS

What is the measuring range of the Neoteck NTK085 Digital Caliper?

The Neoteck NTK085 Digital Caliper has a measuring range of 0 to 6 inches, allowing for versatile measurements in both small and larger applications.

What is the accuracy of the Neoteck NTK085 Digital Caliper?

The Neoteck NTK085 Digital Caliper provides an accuracy of 0.001 inch or 0.02mm, ensuring precise measurements for various tasks.

What material is the Neoteck NTK085 Digital Caliper made from?

The Neoteck NTK085 Digital Caliper is made from durable stainless steel, offering strength and resistance to wear for long-lasting use.

What kind of battery does the Neoteck NTK085 Digital Caliper use?

The Neoteck NTK085 Digital Caliper operates on a 1 LR44 battery, providing reliable power for digital measurements.

What are the dimensions of the Neoteck NTK085 Digital Caliper?

The Neoteck NTK085 Digital Caliper has dimensions of 1.02 x 9.69 x 3.62 inches, making it compact

enough for storage while still large enough for easy handling.

How much does the Neoteck NTK085 Digital Caliper weigh?

The Neoteck NTK085 Digital Caliper weighs 11.4 ounces, offering a solid, durable feel without being too heavy.

Is the Neoteck NTK085 Digital Caliper suitable for both metric and imperial measurements?

Neoteck NTK085 Digital Caliper can measure both metric (mm) and imperial (inches) units, making it highly versatile for various measurement needs.

What is the model number of the Neoteck NTK085 Digital Caliper?

The model number of the Neoteck NTK085 Digital Caliper is NTK085, which helps identify the specific version of the product.

What is the country of origin of the Neoteck NTK085 Digital Caliper?

The Neoteck NTK085 Digital Caliper is manufactured in China, known for its cost-effective, high-quality digital caliper models.

What is the display type of the Neoteck NTK085 Digital Caliper?

The Neoteck NTK085 Digital Caliper features a digital display, making it easy to read measurements with precision.

What is the accuracy of the Neoteck NTK085 Digital Caliper in both inches and millimeters?

The Neoteck NTK085 Digital Caliper offers an accuracy of 0.001 inch or 0.02mm, allowing for precise measurements in both imperial and metric units.

What type of battery does the Neoteck NTK085 Digital Caliper require?

The Neoteck NTK085 Digital Caliper requires a 1 LR44 battery to operate, which is easily available and provides long-lasting use.

What is the maximum accuracy you can achieve with the Neoteck NTK085 Digital Caliper?

The Neoteck NTK085 Digital Caliper provides a maximum accuracy of 0.001 inch or 0.02mm, allowing for very precise measurements.

What is the price of the Neoteck NTK085 Digital Caliper?

The Neoteck NTK085 Digital Caliper is priced at $25.99, offering good value for a precision instrument made of stainless steel.

What was the release date for the Neoteck NTK085 Digital Caliper?

The Neoteck NTK085 Digital Caliper was first made available on August 7, 2017, and has been a popular choice for both hobbyists and professionals since then.

References

- **User Manual**