FineSource DC-HKC Digital Vernier Caliper User Manual

Contents

FineSource DC-HKC Digital Vernier Caliper

INTRODUCTION

If you want to be very accurate with your readings, you need the FineSource DC-HKC Digital Vernier Caliper. This digital caliper has a measuring range of 0 to 6 inches (0 to 150 mm) and an impressive accuracy of ±0.2mm/0.01 inch. It can be used for a lot of different tasks and give very exact results every time. The caliper is made of Acrylonitrile Butadiene Styrene (ABS), which makes it strong and light (it only weighs 2.82 ounces). It runs on a single LR44 battery, which saves energy and makes it easy to keep up. This tool is great for builders, jewelers, and people who like to do their own projects. With a resolution of 0.01 inch/0.1 mm, it's easy to make accurate measures. It came out on June 25, 2022, and costs $65. It is made by FineSource, a company known for making high-quality measure tools. The DC-HKC Digital Vernier Caliper works very well and doesn't cost a lot of money. It can be used for work or for personal projects.

SPECIFICATIONS

Brand	FineSource
Price	$65
Material	Acrylonitrile Butadiene Styrene (ABS)
Number of Batteries	1 LR44 battery required
Measuring Range	0-6 inches / 0-150 mm
Accuracy	±0.2 mm / 0.01 inch
Resolution	0.01 inch / 0.1 mm
Battery Type	LR44
Product Dimensions	11.18 x 3.86 x 0.1 inches
Weight	2.82 ounces
Item Model Number	DC-HKC
Batteries Required	1 LR44 battery
Date First Available	June 25, 2022
Manufacturer	FineSource

WHAT'S IN THE BOX

- Digital Vernier Caliper
- Battery
- User Manual

FEATURES

- **High Precision**: It can measure with an accuracy of ±0.2mm (0.01 inch), which is great for taking exact and detailed measurements.

- **Zero Function**: The zero button lets users set the caliper to any point of reference, which makes it easier to measure things that are at different starting places.
- **Unit Conversion**: It’s simple and flexible to switch between millimeters and inches with the push of a button.
- **Automatic Shut-Off**: To save battery life, it turns off by itself after 5 minutes of inaction.
- **Big LCD Screen**: The big, clear LCD screen makes it easy to read measurements, even when there isn’t much light or when the workplace is busy.

- **Four Measuring Modes**: External diameter, internal diameter, depth, and step measuring modes are all included to meet a range of measurement needs.
- **External Diameter Measuring**: Use the caliper's two long jaws to measure the outside diameter of an item.
- **How to Measure the Internal Diameter**: Use the caliper's two top jaws to measure the internal diameter.
- **Depth Measuring**: The long tool that sticks out from the caliper body makes it easy to measure depth.
- **Step Measuring**: The shape of the steps makes it possible to measure lengths or heights that are hard to get to with other tools.
- **High-Quality ABS Material**: The caliper is made from high-quality ABS material that doesn't rust and doesn't wear down easily.

QUALITY ELECTRONIC DIGITAL VERNIER CALIPER

- **Small and Lightweight**: The caliper is small and light (it weighs only 2.82 ounces), so it's easy to carry in your pocket or tool kit.
- **User-Friendly Interface**: The caliper is easy for even newbies to use because it has a user-friendly interface.
- **Battery-Powered**: It runs on a single LR44 battery, which is easy to change and guarantees long-lasting use.
- **Uses**: Great for many things, like woodworking, do-it-yourself projects, machining, making jewelry, and more.

SETUP GUIDE

- **Unbox the Caliper**: Carefully open the box and take out the caliper, the user guide, and the battery.
- **Install the Battery**: Put the LR44 battery that came with the kit into the battery box and make sure it's facing the right way.
- **Power On**: Either slide the measuring jaws or press the power button to turn on the caliper.
- Make sure the caliper says "0.00" or "0.00mm" when it's fully closed, and reset it if it doesn't.
- **Choose a Measuring number**: To choose the number you want to use, press the unit button. You can then choose between millimeters (mm) and inches (in).
- **Set Zero place**: Press the "zero" button to return the caliper to the starting place you want for accurate measurements.
- **Choose Measurement Mode**: For the measurement you need to take, choose the right mode (external, internal, depth, or step).
- **Measure the Outside Diameter**: To measure the outside diameter of an item, open the two long jaws and

place them around its edge.

- Take a measurement of the inner diameter by closing the two top jaws and putting them inside the item.
- The probe can be used to measure depth. To do this, extend the probe from the caliper and place it in the object's hole or hollow.
- **Use the Step Design to Measure Length or Height** : To measure the length or height of something, place the caliper's step design against it.
- **Set the caliper to "Auto Off."** Leave it alone for 5 minutes to let the "Auto Off" function work and save battery life.
- **Check the Battery Status**: If the screen goes dark, you should change the LR44 battery to keep it working at its best.
- **Keep the Caliper Safe**: To keep the caliper safe, keep it in a dry, clean place, ideally in its case.
- **Regularly Check for Accuracy**: To keep the caliper's accuracy, check it against a known reference item on a regular basis.

CARE & MAINTENANCE

- **Clean After Each Use**: To clean the caliper after each use, use a soft, dry cloth to wipe down the body and teeth to get rid of dust, dirt, and water.
- **Avoid Harsh Chemicals**: Do not use solvents or cleaners that are rough on the surface because they can damage it and make it less accurate.
- **How to Store It**: To keep it from getting scratched or broken, always put the caliper in its case when not in use.
- **Take Out the Battery**: If you're not going to use the caliper for a long time, take out the battery to keep it from leaking or rusting.
- **Check the Jaws**: Make sure to check the measuring jaws often for any damage or signs of wear that could affect their accuracy.
- **Do Not Drop**: Be careful when handling the caliper and do not drop it on hard surfaces to keep its accuracy.
- **Keep Dry**: To keep the caliper from rusting or corroding, make sure it stays dry and free of water, especially the battery area.
- **Adjust if Necessary**: Check the caliper every so often and reset it to "0" to adjust it if the readings don't seem right.
- **Use in Correct Temperature Ranges**: To avoid errors caused by changes in temperature, use the scale within the range of temperatures that it was made to work with.
- **Protect the Screen**: To keep the LCD screen from getting damaged, don't press on it too hard.
- **Keep it in a cool, dry place**: Keep the caliper in a controlled setting so it doesn't get too hot or too cold.
- **Stay out of direct sunlight**: The caliper's screen or material can get damaged by being in direct sunlight for a long time, so don't leave it out there for long amounts of time.
- **Check the Battery Often**: If the screen goes dark, replace the battery right away to make sure it keeps working.
- **Do Not Use as a Hit**: The caliper should never be used to tap or hit things, as this can damage the parts.
- **Do Regular Function Checks**: Measure reference items with the caliper on a regular basis to make sure it keeps working correctly.

TROUBLESHOOTING

Issue	Solution
Display not turning on	Ensure the battery is properly inserted or replace with a fresh **LR44**.
Inconsistent readings	Calibrate the caliper before use and check for dirt or debris on the jaws.
Error codes showing	Refer to the user manual for troubleshooting error codes and reset.
Battery draining quickly	Check the power-off settings and ensure the caliper is turned off after use.
Display flickering	Re-seat the battery or replace with a new **LR44** battery.
Measurement not zeroing	Reset the caliper and ensure it's on a flat surface when zeroing.
Units not switching between	Press the unit conversion button firmly and hold for a few seconds.
LCD display showing garbled t ext	Clean the screen and ensure no dirt is obstructing the view.
Jaws not moving smoothly	Clean the slide and lightly lubricate it to ensure smooth operation.
Reading error	Perform a calibration test with a known standard to verify measurement acc uracy.
Display showing low battery	Replace with a new **LR44** battery.
Micrometer sticking	Clean the micrometer and ensure the spindle is not obstructed by debris.
Mode switching malfunction	Turn the caliper off and back on to reset the mode.
Unit conversion not working	Check if the unit button is functioning correctly or stuck.
Micrometer reading inconsiste nt	Recheck the calibration and ensure the tool is properly zeroed.

PROS & CONS

Pros:

1. Accurate measurements with **±0.2mm/0.01-inch** precision.
2. Lightweight and durable **ABS construction**.
3. **0-6 inch/0-150mm** measuring range suitable for various tasks.
4. **Energy-efficient** with a long-lasting **LR44 battery**.
5. **Clear digital display** for easy and precise reading.

Cons:

1. **Accuracy** is slightly lower compared to higher-end models.
2. Limited to a **6-inch range**, not suitable for larger measurements.
3. **The battery** may require occasional replacement.
4. The **plastic body** may not appeal to users preferring metal calipers.
5. **The display** can be difficult to read in dim lighting conditions.

WARRANTY

The **FineSource DC-HKC Digital Vernier Caliper** comes with a **1-year limited warranty**, which covers defects in materials and workmanship under normal usage. The warranty provides peace of mind to users, ensuring the caliper will function as expected. If any issues arise during the warranty period, **FineSource** offers repair or replacement services, allowing customers to enjoy the tool with confidence. This warranty reflects the manufacturer's dedication to quality and customer satisfaction.

FREQUENTLY ASKED QUESTIONS

What is the measuring range of the FineSource DC-HKC Digital Vernier Caliper?

The FineSource DC-HKC Digital Vernier Caliper has a measuring range of 0-6 inches (0-150mm), making it ideal for various precision measurements.

What is the accuracy of the FineSource DC-HKC Digital Vernier Caliper?

The FineSource DC-HKC Digital Vernier Caliper offers an accuracy of ±0.2mm (±0.01 inches), ensuring precise measurement for detailed tasks.

What material is used to construct the FineSource DC-HKC Digital Vernier Caliper?

The caliper is made from Acrylonitrile Butadiene Styrene (ABS), providing durability and a lightweight design.

What is the resolution of the FineSource DC-HKC Digital Vernier Caliper?

The resolution of the FineSource DC-HKC Digital Vernier Caliper is 0.01 inches (0.1mm), allowing for detailed and clear measurements.

How many batteries does the FineSource DC-HKC Digital Vernier Caliper require?

The FineSource DC-HKC Digital Vernier Caliper requires one LR44 battery for operation.

Are batteries included with the purchase of the FineSource DC-HKC Digital Vernier Caliper?

LR44 battery is required, and it is included with the purchase of the product.

What is the weight of the FineSource DC-HKC Digital Vernier Caliper?

The FineSource DC-HKC Digital Vernier Caliper weighs 2.82 ounces, making it lightweight and easy to handle.

What are the product dimensions of the FineSource DC-HKC Digital Vernier Caliper?

The caliper measures 11.18 x 3.86 x 0.1 inches, which provides a user-friendly size for efficient use.

What type of display does the FineSource DC-HKC Digital Vernier Caliper have?

The caliper features an LCD screen that provides a clear and easy-to-read display.

When was the FineSource DC-HKC Digital Vernier Caliper first available?

The FineSource DC-HKC Digital Vernier Caliper was first available on June 25, 2022.

Who manufactures the FineSource DC-HKC Digital Vernier Caliper?

The caliper is manufactured by FineSource, known for producing high-quality measuring tools.

What type of battery is used in the FineSource DC-HKC Digital Vernier Caliper?

The caliper uses an LR44 battery, which is a common power source for precision instruments.

What is the precision level of the FineSource DC-HKC Digital Vernier Caliper?

The precision level is ±0.2mm (±0.01 inches), which meets high standards for accurate measurements.

Why won't my FineSource DC-HKC Digital Vernier Caliper turn on?

If your FineSource DC-HKC Digital Vernier Caliper isn't turning on, the battery might be dead or improperly installed. Check the battery compartment, replace the battery (typically CR2032), and ensure it’s inserted in the correct orientation.

The display on my FineSource DC-HKC Digital Vernier Caliper is showing inaccurate measurements. What should I do?

Inaccurate readings on the FineSource DC-HKC Digital Vernier Caliper may be caused by dirt or debris on the measuring surfaces. Clean the caliper’s jaws with a soft cloth, and recalibrate by pressing the Zero button to restore accuracy.

References

- User Manual