

CGOLDENWALL 5000g 0.01g

CGOLDENWALL 5000g 0.01g High Precision Laboratory Balance Instruction Manual

Model: 5000g 0.01g

Brand: CGOLDENWALL

1. INTRODUCTION

This manual provides detailed instructions for the proper use and maintenance of your CGOLDENWALL 5000g 0.01g High Precision Laboratory Balance. Designed for accuracy and reliability, this electronic scientific weighing scale is equipped with a high-sensitivity sensor to deliver precise and rapid results with an accuracy of 0.01g.

The analytical balance features a durable ABS body and a 180x140mm stainless steel weighing pan. It includes adjustable feet and a level bubble to ensure accurate measurements in various environments. The scale is pre-calibrated before shipment; calibration should only be performed if significant errors are observed, following the instructions provided.

Key functionalities include 13 unit conversions (g, ct, oz, lb, %, etc.), tare/zero, counting function, and calibration capabilities. The LCD display with blue backlighting ensures clear readability in diverse lighting conditions, also indicating low battery and overload status.

2. SETUP

2.1 Unpacking and Component Identification

Carefully unpack all components from the packaging. Verify that all items listed below are present:

- CGOLDENWALL Laboratory Balance Unit
- Stainless Steel Weighing Pan
- Under Plate
- 110V AC Adapter
- Screws (x2)
- Wrench (x1)

Size and Accessories

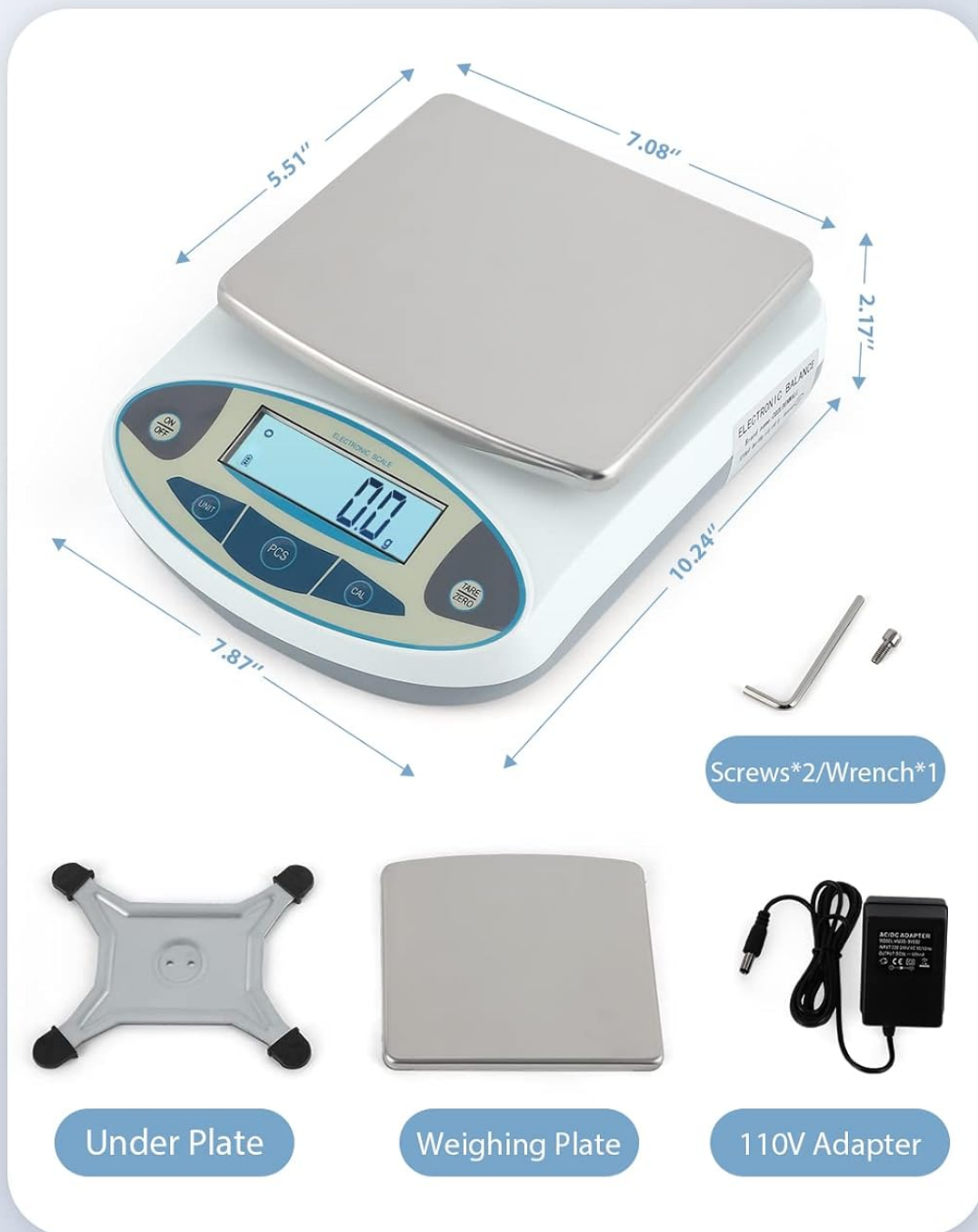


Figure 1: Included components of the CGOLDENWALL Lab Scale.

2.2 Powering the Scale

The scale can be powered using two methods:

- **110V AC Adapter:** Connect the included AC adapter to the power port on the scale and then to a standard electrical outlet.
- **9V DC Battery:** For portable use, a 9V battery (not included) can be inserted into the battery compartment located on the underside of the scale.

Two Powering Modes



**110V AC Adapter(included)
or 9V DC Battery(NOT included)**

Figure 2: Illustration of the two powering modes: 110V AC adapter and 9V DC battery.

Video 1: Demonstration of installing a 9V battery for portable power. The scale can be powered by both 110V AC adapter and 9V battery.

2.3 Leveling the Scale

For accurate measurements, ensure the scale is placed on a stable, level surface. Use the adjustable feet at the bottom of the scale to level it. The built-in horizontal bubble indicator will show when the scale is perfectly level.

Stable

The level meter can directly show whether it is level or not . Four black feet can be adjusted to make sure the balance steady.



Figure 3: The horizontal bubble and adjustable feet ensure stability and accurate leveling.

3. OPERATING INSTRUCTIONS

3.1 Basic Weighing

To perform a basic weighing operation:

1. Place the item directly onto the stainless steel weighing pan.
2. Read the weight displayed on the LCD screen.



Figure 4: Example of a basic weighing operation.

Video 2: Demonstration of the weighing function, showing how to place items on the scale and read the display.

3.2 Tare Function

The tare function allows you to subtract the weight of a container, so only the weight of the contents is measured.

1. Place the empty container on the weighing pan.
2. Press the "TARE/ZERO" button. The display will reset to 0.00g.
3. Add the item to be weighed into the container. The display will show the net weight of the item.

Tare Function



Peeling for Weighing of the Solution in the Beaker



01 Step.1

Put the empty container on the scale

02 Step.2

Press the Tare button

03 Step.3

Put the item in the containeron

Figure 5: Step-by-step guide for using the tare function.

Video 3: Demonstration of the tare function, showing how to zero out the weight of a container.

3.3 Unit Conversion

The scale supports 13 different weighing units. To switch between units:

- Press the "UNIT" button repeatedly to cycle through the available units: grams (g), carats (ct), ounces (oz), pounds (lb), Newtons (N), pennyweights (dwt), drams (dr), grains (GN), taels (tIT, T, T/A/R), and percentage (%).

Unit Conversion

13 Units Conversion: g, ct, oz, ozt, N, lb, dr, GN, dwt, %, t/T, T, T/A/R



Figure 6: The unit conversion feature allows switching between various measurement units.

Video 4: Demonstration of switching between 13 different weighing units using the UNIT button.

3.4 Counting Function

The counting function allows you to count multiple small items of uniform weight.

1. Place a sample quantity of items (e.g., 10, 20, 50, 100 pieces) on the pan.
2. Press the "PCS" button and select the corresponding sample quantity.
3. Add more items to the pan, and the scale will display the total count.



Figure 7: The counting function for uniform small items.

3.5 Calibration

The scale is pre-calibrated. However, if you notice significant discrepancies, you may need to recalibrate it. This model (5000g) requires a 2000g calibration weight, which is not included due to shipping considerations. Calibration weights are readily available for purchase.

3.5.1 Single Point Calibration

1. Ensure the scale is empty and stable.
2. Press and hold the "CAL" button until "-CAL-" flashes on the display.
3. The scale will then flash the required calibration weight (e.g., "2000.00g").

4. Carefully place the specified calibration weight onto the center of the weighing pan.
5. The scale will stop flashing and display "PASS" or return to normal weighing mode, indicating successful calibration.

Video 5: Demonstration of single point calibration using a calibration weight.

3.5.2 Multi-Points Calibration

For more precise calibration across the weighing range, multi-points calibration can be performed.

1. Ensure the scale is empty and stable.
2. Press and hold the "CAL" button until "-CAL-" flashes.
3. While "-CAL-" is flashing, press and hold the "PCS" button to enter multi-points calibration mode.
4. The scale will prompt for successive calibration weights. Place each weight as prompted.
5. Follow the on-screen instructions until the calibration process is complete.

Video 6: Demonstration of multi-points calibration, showing placement of multiple calibration weights successively.

4. MAINTENANCE

Proper maintenance ensures the longevity and accuracy of your laboratory balance.

- **Cleaning:** Wipe the scale surface and weighing pan with a soft, damp cloth. Avoid abrasive cleaners or solvents that could damage the finish or internal components. Ensure no liquids enter the scale's interior.
- **Storage:** Store the scale in a clean, dry, and stable environment, away from extreme temperatures, humidity, vibrations, and strong electromagnetic fields.
- **Handling:** Handle the scale with care. Avoid dropping it or subjecting it to sudden impacts, as this can affect its precision.
- **Weighing Pan:** Always ensure the weighing pan is clean and free of debris before use.

5. TROUBLESHOOTING

If you encounter issues with your scale, refer to the following common troubleshooting steps:

- **Inaccurate Readings:**
 - Ensure the scale is on a stable, level surface. Use the level bubble to verify.
 - Check for drafts or air currents that might affect readings.
 - Verify that the weighing pan is correctly seated and free of obstructions.
 - Perform a calibration as described in Section 3.5.
- **Display Not Turning On:**
 - Check the power connection if using the AC adapter.
 - If using battery power, ensure the 9V battery is correctly installed and not depleted. Replace if necessary.
- **"EEEE" or Overload Indication:**
 - This indicates the weight on the pan exceeds the scale's maximum capacity (5000g). Remove some weight immediately to prevent damage.
- **"Lo" or Low Battery Indication:**

- If using battery power, replace the 9V battery. If using AC adapter, this may indicate a power supply issue.

If problems persist after attempting these steps, please contact customer support.

6. SPECIFICATIONS


Feature	Detail
Model	5000g 0.01g
Accuracy Resolution	0.01g
Maximum Weight Capacity	5000g
Weighing Pan Size	180 x 140 mm (7.1 x 5.5 inches)
Product Dimensions	34.29 x 28.5 x 16 cm
Weighing Error	±0.03g
Display Type	LCD with Backlit Display
Power Supply	110V AC Adapter (included) or DC 9V Battery (not included)
Units of Measurement	g, ct, oz, lb, N, dwt, dr, GN, tIT, T, T/A/R, %
Special Features	Backlit Display, Fault Displays, Adjustable Feet, Level Bubble
Recommended Uses	Metals, Herbs, Baby Powder, Animals, Pets, Gemstones
Manufacturer	CGOLDENWALL
Manufacturer Reference	CNA 663H

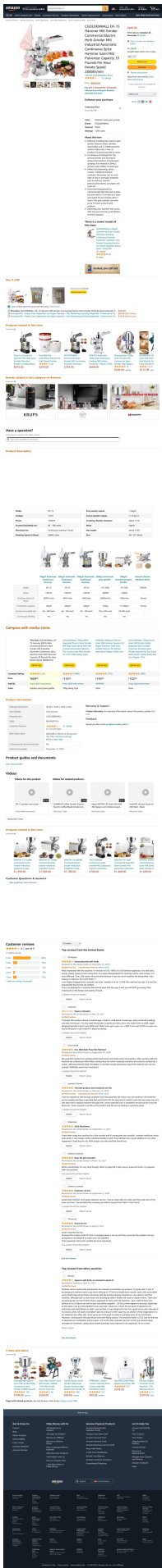
7. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation included with your purchase or contact CGOLDENWALL customer service directly. Ensure you have your product model number and purchase details available when seeking support.

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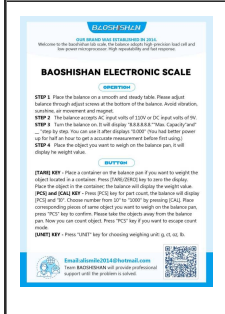
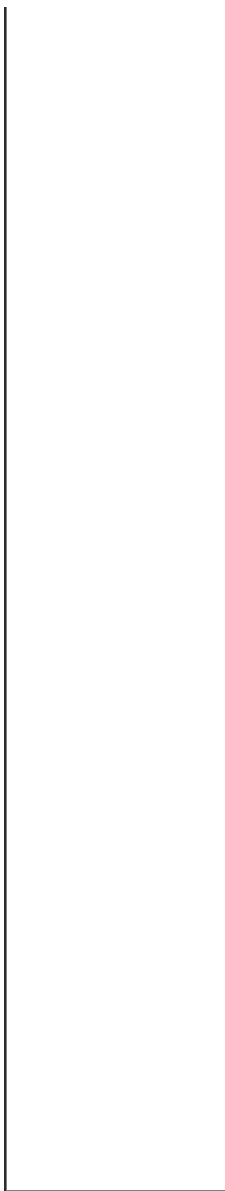
Related Documents - 5000g 0.01g

 <p>CGOLDENWALL Projector Lift User Manual</p> <p>CGOLDENWALL Projector Bracket</p> <p>CONTACT US: Address: 4018 CGOLDENWALL Street: 4018 CGOLDENWALL STREET, CHINA Website: www.CGOLDENWALL.com Phone: +86 18600000000 Email: CGOLDENWALL@CGOLDENWALL.com</p>	<p>CGOLDENWALL Projector Lift User Manual - Installation, Operation, and Specifications</p> <p>Comprehensive user manual for the CGOLDENWALL motorized projector lift. Covers product description, detailed specifications for FT100, FT150, FT200 models, installation guide, operation instructions, remote control usage, limit adjustment, and troubleshooting common issues.</p>



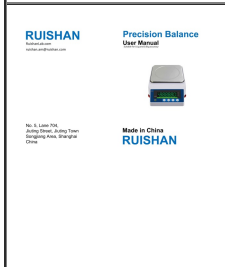
[CGOLDENWALL DF-15 Hammer Mill Grinder: Commercial Electric Spice and Grain Pulverizer](#)

Detailed overview of the CGOLDENWALL DF-15 Hammer Mill Grinder, a powerful 1200W electric pulverizer for spices, herbs, grains, and traditional Chinese medicine. Features include continuous grinding, fast heat dissipation, and a durable stainless steel build. Includes specifications, comparison with other models, and customer review summaries.



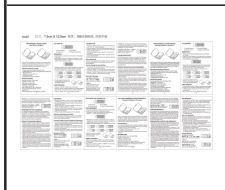
[Baoshishan Electronic Scale: User Guide for Operation, Calibration, and Troubleshooting](#)

Detailed user guide for the Baoshishan Electronic Scale, covering essential operations, button functions, preparation steps, calibration procedures, and troubleshooting common error codes. Ideal for users of precision lab balances.



[RUIZHAN Precision Balance User Manual - Accurate Weighing for Labs and Industry](#)

Comprehensive user manual for the RUIZHAN Precision Balance (RSTP series). Covers features, specifications, operation, maintenance, safety, and troubleshooting for accurate weighing, counting, and calibration in laboratory, educational, and industrial settings.



[Brifit Digital Pocket Scale User Manual](#)

User manual for the Brifit Digital Pocket Scale, detailing its features such as 50g capacity, 0.001g precision, back-lit LCD display, 6 units, tare function, and included accessories like calibration weights, tray, and tweezers.

Capacity:
0.001g/0.01g
200g/500g



[My Weigh x RAW Tray Scale User Manual and Instructions](#)

This user manual provides comprehensive instructions for operating, calibrating, and maintaining the My Weigh x RAW Tray Scale. It covers features, error messages, and technical specifications for accurate and reliable weighing.