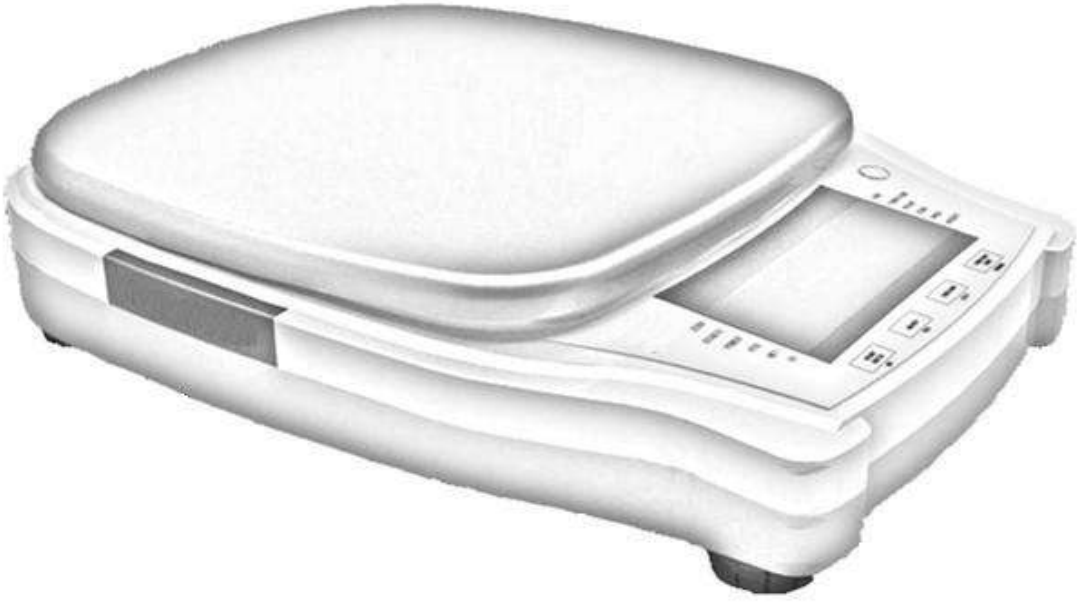
D-8001 ELECTRONIC BALANCE

Instruction Manual



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(Note: due to the continuous improvement of product, this version may be slightly different with the newer products, please contact the manufacturer for the latest version.)

1. DESCRIPTION

1.1. Introduction

D-8001 balance is specialty with powerful over-load protection and transport process anti-bumping device. It adopts the new quick stability algorithm, Equipment with red and green colors of LCD tubes, supported with micro-USB charger interface.

The capacity covers from 210g to 6100g, suitable for laboratory and industry weighing fields.

1.2. Characters

1.2.1. Supportive Micro-USB input jack

Balance can be charged with the matched digital cable and adapter of the present Android USB interface, Convenient and endurable.

1.2.2. Quick stable

Balance adopts the new filtering algorithm to achieve the quick stability within 1 second.

1.2.3. Unique novelty construction and appearance

On the appearance, we adopt a new unique design and break through the current stereotyped appearance of the balances.

On the structure, we take the attitude of seeking the perfection and select the optimal force structure, considering overload protection and transportation protection of the balance.

1.3. Safety tips

- Verify that the AC adapter input voltage matches the local AC power supply.
- Use the balance in dry location, Due to the humid environment will cause the corrosion of the internal parts of the balance and affect the weighing result.
- Load lightly and don’t drop loads on the platform.
- Don’t use balance in hostile environment.

- Clean the balance without power.
- Service should be performed by located authorized personnel or agency when the balance is not workable.

2. INSTALLATION

2.1. Package contents

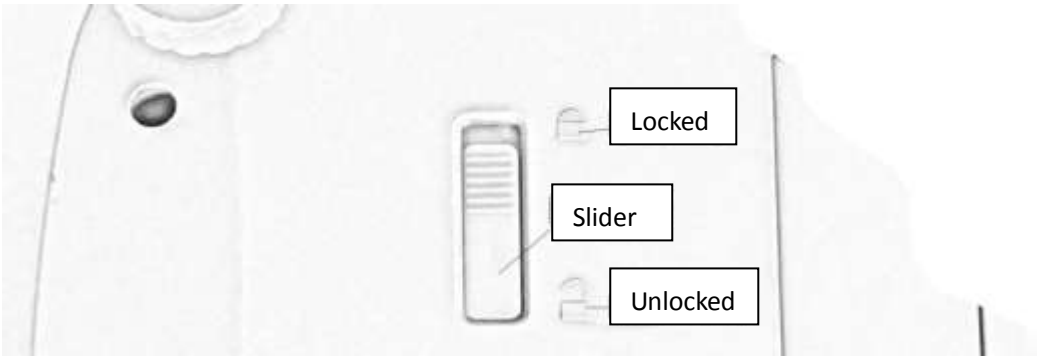
Balance, stainless steel pan, weight, power adapter, power digital cable, Instruction Manual, Warranty card

Please take and check the balance and other parts from the package if they are matched. For different parts from different item no. Please keep the pack perfect for safe transportation and store.

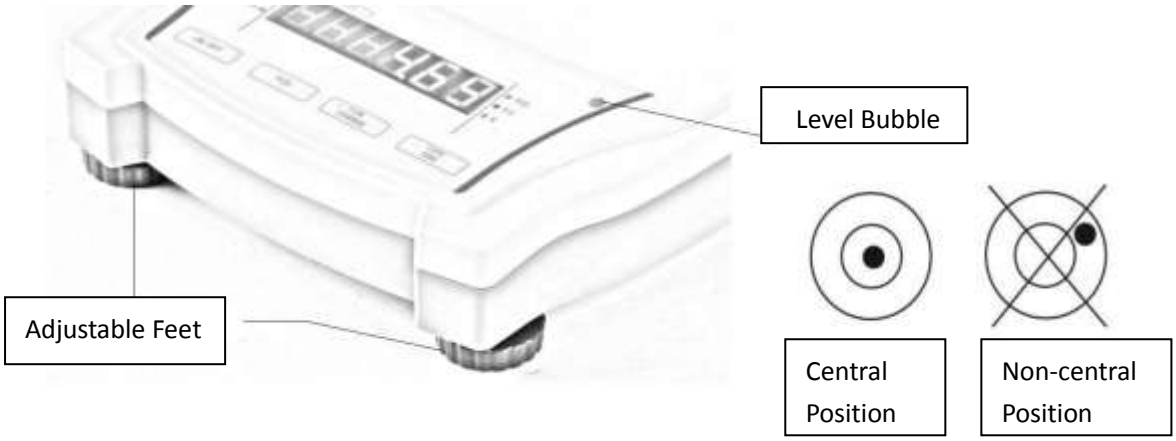
Parts/Series	**2102**	**3102**	**6102**	**10002**	**30001**	**50001**	**60001**
Balance	1	1	1	1	1	1	1
Stainless Steel Pan	Round Pan	Round Pan	Round Pan	Round Pan /Square Pan	Square Pan	Square Pan	Square Pan
Weight	200g*1	200g*1	500g*1	500g*2	-	-	-
Power Adapter	1	1	1	1	1	1	1
Power Digital Cable	1	1	1	1	1	1	1
Instruction Manual	1	1	1	1	1	1	1
Warranty Card	1	1	1	1	1	1	1

2.2. Transportation Lock

The Transportation Lock is located under the balance. Slide the slider from locked position to unlocked position. The protection device is removed and the balance can be used.



2.3. Adjust the level

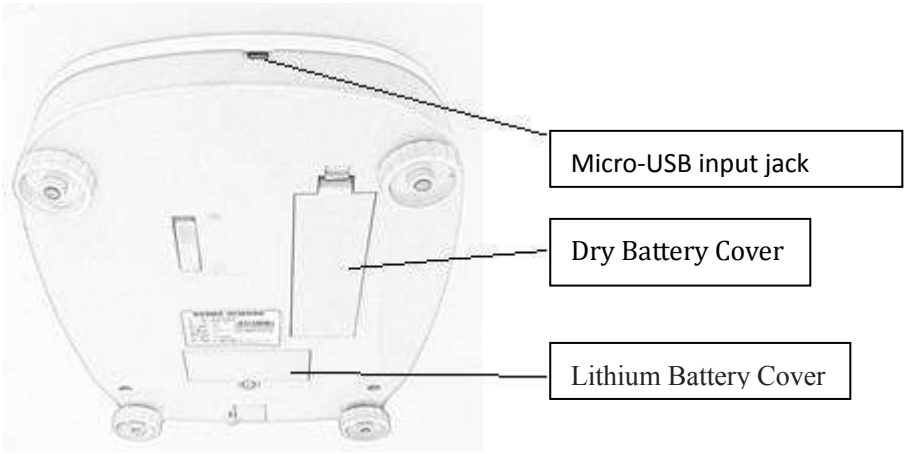


Bubble level is on the top right of the balance. Adjust the leveling feet so the bubble is centered in the circle.

Note: After moving the balance, adjust the level to ensure it is in the central position.

2.4. Power

Connect the USB of the power adapter's power cord (standard) to the balance Micro-USB power interface, and then connect the power adapter plug to the appropriate power outlet.



This balance does not support the standard dry battery, no built-in lithium battery; dry batteries and lithium batteries can only match one.

2.4.1 Dry battery installation(without optional internal battery): Remove battery cover and install 4 batteries using the polarity indications as shown in the compartment.

Note: When the dry battery and the power supply at the same time, balance first use power supply. When the balance is switched from the power supply to the dry battery, need close the balance first, connect the power supply and then press the power button to start the balance. In

order to protect the life of dry batteries, it is advisable to remove dry batteries when not in use for a long time.

2.4.2 Rechargeable battery (lithium battery)**:** Balances with the optional rechargeable battery will need to be charged for 12 hours before the balance can be operated on battery power for the first time. The battery is protected from overcharging so the balance can remain connected to the power. When the battery is fully charged the battery indicator on the display will stop blinking.

Note: If the rechargeable battery is improperly installed or improperly operated, it may cause a battery explosion or other danger.

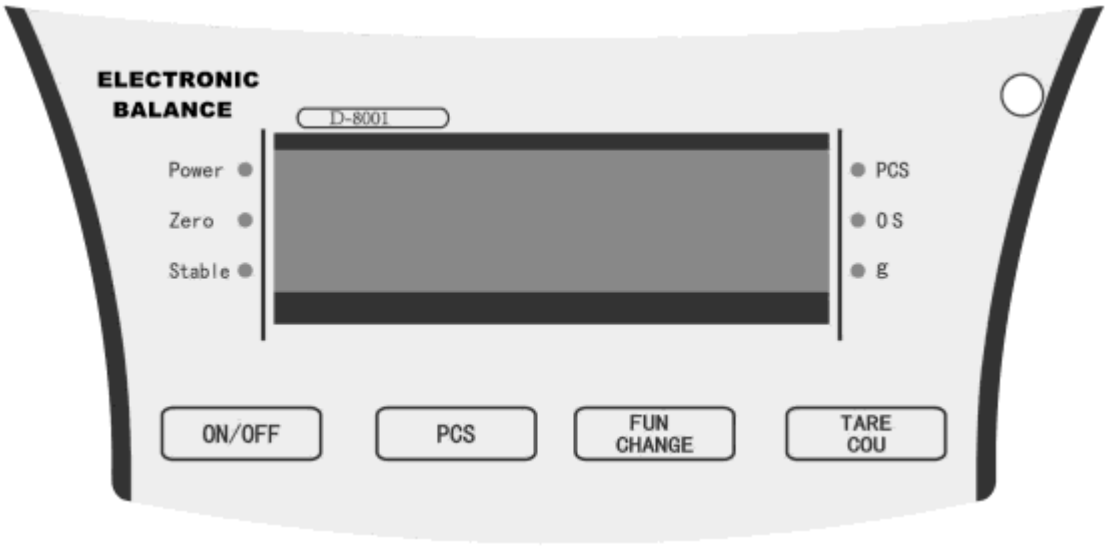
2.5. The best working condition

If you choose the correct installation for the electronic balance, you will get a higher weighing efficiency and accurate measurement results. Please follow these precautions:

- Set the balance in a smooth, vibration-free position (table or ground).
- The best place to settle: the corner of the shelter, stable marble countertops, as far as possible away from the doors, windows, radiators and air-conditioning outlet.
- Avoid setting up direct sunlight, intense temperature fluctuations, and strong air convection.
- It can achieve the best weighing performance after turning on the balance 60 minutes.

3. STRUCTURE INTRODUCTION

3.1. Controller



'Power' power indicator: When power on, press 【ON / OFF】 key, the indicator light is on, then the power state is normal; if the indicator flashes or does not light, the power is abnormal, the balance cannot turn on, please check if the power cord is plugged in;

'Zero' zero indicator: In the weighing mode, display "0" and the indicator light is on, then enter the no-load stable state;

'Stable' Steady light: When the indicator light is on, the current weighing enters the steady state; if the indicator flashes; the balance state is not stable;

'PCS' parts counting indicator: When indicator light is on, balance weighing mode from "weighing" to "counting ";

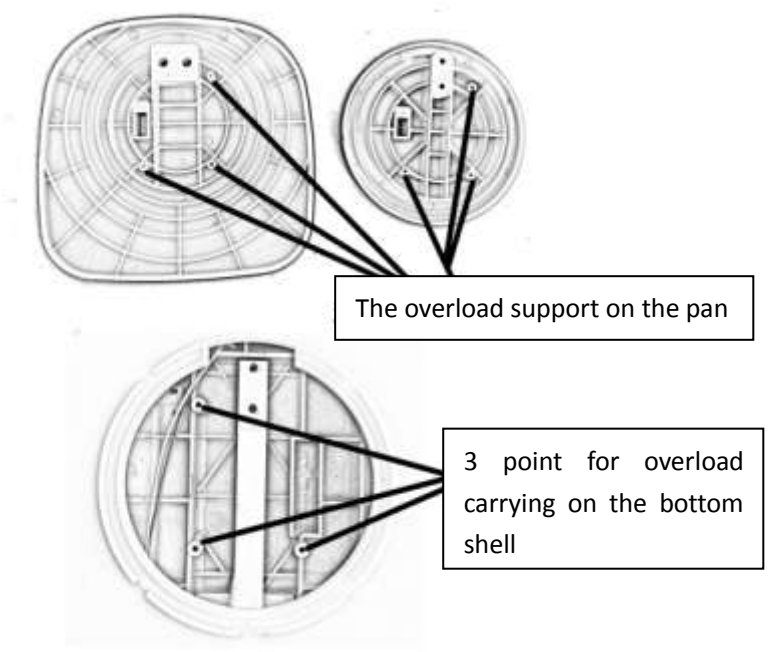
'Os' ounce indicator: indicator light when the unit is ounces;

'G' gram indicator: When the indicator light is on, the weighing unit is gram.

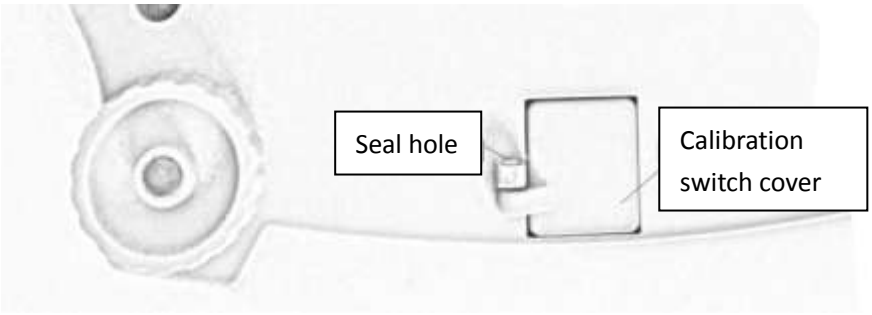
Key	Function
【ON/OFF】	Switch key: used to switch the turn on, shutdown state; in the turn on process the rest of the keys are locked out until the balance into the weighing state
【PCS】	Piece switch key: by pressing the key to switch the piece and weighing, if the sample is in the state, you can not switch back to weighing state, only after the completion of sampling to restore the weighing and weighing mode switch
【FUN CHANGE】	Unit switch key: By pressing the key to switch between grams and ounces
【TARE COU】	Tare and determine the key: by pressing the key to achieve the skin and piece sampling confirmation

3.2. Introduction to other structures

- Overloading protection device: balance scale tray back and bottom shell with three corresponding overload support points, can effectively protect the sensor do not damaged when overloading, to make the balance has excellent overload protection.



- Calibration seal structure (optional): The calibration lock of the balance is set in the calibration switch slot at the bottom of the balance. The calibration switch cover must be opened before the calibration lock switch can be operated. Between the calibration switch cover and the balance shell, a seal hole is provided for calibrating the seal of the lock switch.



4. FUNCTIONS

4.1. Initial calibration

In order to obtain accurate weighing results, the balance must be calibrated.

Before calibration, make sure that the following conditions are met:

- ✓ Make sure you have the appropriate calibration weights.
- ✓ Make sure you have adjusted the horizontal position.

- ✓ Make sure there is no obvious airflow.
- ✓ Balance in the no-load state.

4.1.1. Calibration process

In the case of ensuring that the balance zero indicators is on and the steady light is on, press the [TARE COU] key until the interface flashes and [CAL] appears. Release this key to indicate the weight of the calibration weight. At this point, put the calibration weight in the center of the pan. Stable light, the interface shows [------]. Balance back to zero, calibration is over.

4.2. Weighing

After the calibration is completed, the sample is placed directly on the weighing pan to read the weight value of the sample. If a container is required, place the container on the weighing pan first, then press the peel key, and then place the sample in the container, which shows the weight value of the sample.

4.3. Parts Counting

The choices of sample size as follow: 10, 20, 50, 100, 200, 250, please choose one of the sample size, and to ensure that the weight of a single sample is greater than e.

In the case of ensuring that the balance is empty and the balance zero indicator and the steady lamp are on, press 【PCS】 key, the interface will flash 【COU】. Release this key, the balance flashes the number of samples, press 【PCS】 key to switch to select the number of different samples. Put the prepared sample on the weighing pan, to be stable light is lit; press the [TARE COU] key, to be on the interface after the count value is stable, that is, to complete the sampling. Remove the sample and place the item on the weighing pan.

Note: items to be counted cannot exceed the range; otherwise it will prompt [OVER].

4.4. Tare

Pressing tare button when the stability light is normally on, you can use tare function.

5. Maintenance

5.1. Troubleshooting

The following table lists the common faults, possible causes and remedy. Please contact the vendor or the local authorized dealer if the fault persists.

Symptom	Possible causes	Remedy
Cannot turn on	No power to balance	Verify connections and voltage
Poor accuracy	Improper calibration Unstable environment Locked or not fully opened slider.	Perform calibration Move balance to a suitable location Open slider fully
Cannot calibrate	Unstable environment Incorrect calibration weight	Move balance to suitable location Use correct calibration weight
over Display over on screen	Overload	Do not load exceeds balanced maximum capacity
err1 Display err1 on screen when booting	Uninstalled scale	Use provided stainless steel scale

5.2. Maintenance Services

If the common faults do not resolve or describe your problem, please contract manufacturer after-sale department. Please visit our web site www.cnrme.com to search more after sale information.

6. TECHNICAL DATA

6.1. Ambient conditions

The technical data is valid under the following ambient conditions:

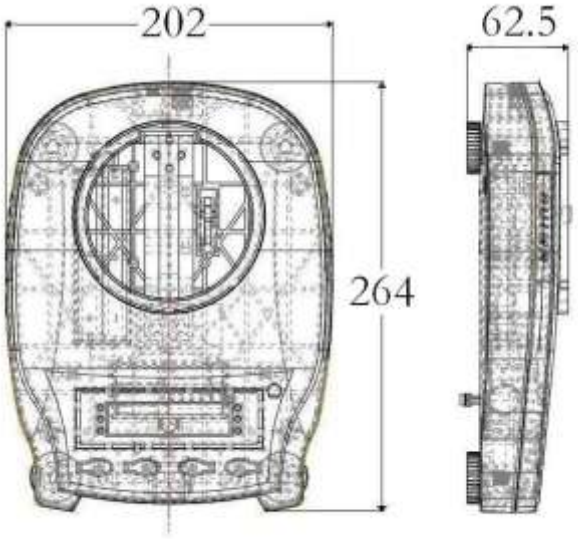
- Environmental humidity: 0 ℃ ~ 40 ℃
- Relative humidity: 20% to 85%, non-condensation
- Height above sea level: less than 2000 m

- Operability: assured at ambient temperatures between 0℃ and 40℃
- Protection degree:2
- Installation category: class III

6.2. Typical specifications:

Model	D-8001 series						
Series number	2102	3102	6102	10002	30001	50001	60001
Max weighting（g）	210	310	610	1000	3000	5000	6000
Readability（g）	0.01	0.01	0.01	0.01	0.1	0.1	0.1
Verification interval e(g)	0.1	0.1	0.1	0.1	1	1	1
Readability (g)	±0.01	±0.01	±0.01	±0.01	±0.1	±0.1	±0.1
Linearity error (g)	0.01	0.01	0.02	0.03	0.1	0.2	0.2
Span calibration mass(g)	200	200	500	500	2000	3000	3000
Stabilization time (s)	1	1	1	1	1	1	1
Construction material	High-strength ABS plastic shell, stainless steel weighing pan						
Windshield	None						
Calibration	Digital with external calibration						
Tare range	Tare Function						
Weighing units	g, oz						
Application models	Weighing, part counting weighting						
Power source	USB power supply						
Communication interface (option)	Micro-USB						
Display screen	Green and red nixie tube						
Overload capacity	10 times of rated capacity						
Operating conditions	10˚C to 40˚C, at 20% to 80% relative humidity, non-condensing						
Storage conditions	-20˚C to 55˚C, at 10% to 90% relative humidity, non-condensing						
Pan size(mm)	Φ130				176×182		
Dimensions (mm)	264(L)×202(W)×62.5H)						
Transport dimension	350(L)×240(W)×100(H)						
Net weight							
Shipping weight							

6.3. Drawings



Unit：mm

LIMITED WARRANTY

We provide warranty which is damaged due to material and technology from delivery to guarantee period. During warranty period, we will offer free repair or replacement of any defective parts as long as you assume the transportation costs.

This warranty is not suitable for damage caused by accident, misuse, contact with radioactive or corrosive materials, and accidental entry of other material, repair or modification by an unauthorized organization. We do not admit any other statements or implied warranty information. At the same time, we do not responsible for the damage.

WARRANTY CARD

USER NAME：_____

ADDRESS：_____

CONTACT：_____ TEL：_____ ZIP CODE：_____

PURCHASE DATE：_____ MODEL：_____

- Please be sure to fill in the right for registration& maintenance services.
- EMAIL: rme@cnrme.com