



# Electronic Balance

INSTRUCTIONS

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# Note to Customers

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We would like to express our gratitude for purchasing our electronic balance.

Before operating this machine, we highly recommend that you carefully read this manual and keep it in a safe place for future reference.

## **Warning**

Please do not open the casing (or back cover) without authorization.  
Maintenance and inspections should only be entrusted to professionals.

# Preparation Before Turning On

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## Warranty Service

Please keep the warranty card and invoice for future proof of after-sales maintenance service.

## Storage and Transportation Conditions

Avoid placing the instrument in environments with excessively high or low temperatures, where collisions are likely to occur, where there is violent vibration, or where there is significant airflow.

## Unboxing

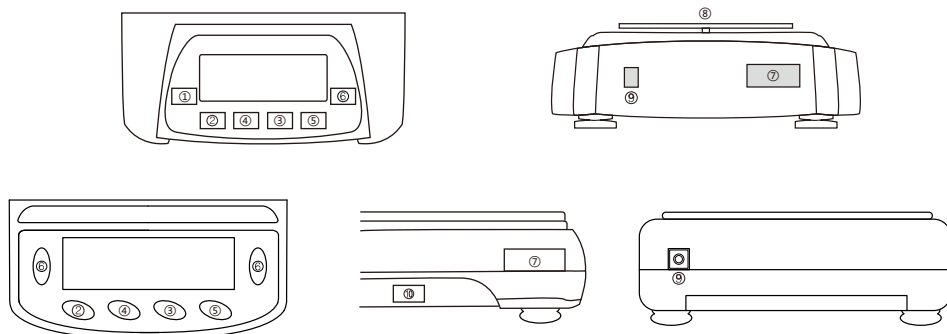
- After opening the package, promptly inspect the instrument's appearance to check for any damage that may have occurred during transit due to improper handling.
- If you discover any damage, please contact the distributor promptly.

## Packing List

Balance host	1 piece
Weighing pan	1 piece
Charger	1 piece
Certificate	1 piece
Manual	1 piece
User Feedback Form	1 piece
Calibration weight( $\geq 1.5\text{kg}$ not included )	1 piece
Battery	1 piece

# Brief Introduction of Balance

## Component Identification and Keyboard Operation



- |                        |       |                           |      |
|------------------------|-------|---------------------------|------|
| ① Power key(PN Series) |       | ⑥ TARE key                | TARE |
| ② Calibration key      | MODE  | ⑦ RS-232 output interface |      |
| ③ Unit conversion key  | UNIT  | ⑧ Weighing pan            |      |
| ④ Print key            | PRINT | ⑨ DC Port                 |      |
| ⑤ Counting function    | PCS   | ⑩ Power key(DJ Series)    |      |

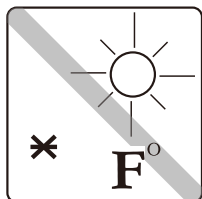
## Display Window Introduction



- |        |                               |                 |               |
|--------|-------------------------------|-----------------|---------------|
| ① Unit | ② Positive and negative signs | ③ Weighing data | ④ Stable sign |
|--------|-------------------------------|-----------------|---------------|

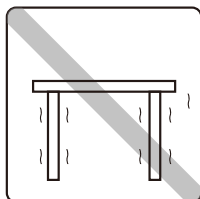
# Environmental Requirements and Preparation Before Use

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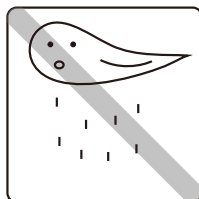


1. Ambient temperature should not change greatly

2. Non-corrosive gas



1. Work table should be solid and reliable



1. No strong airflow around

2. Keep air dry

3. No strong magnetic field around

## Preparation

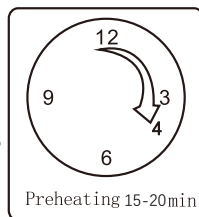
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1. Open the box and remove the balance;
2. Use soft cloth and brush to clean the scale;
3. Place the weighing pan correctly on the balance host;
4. Turn on the balance for preheating; if the ordered balance is not equipped with a battery, please connect the charger first and turn it on.

## Preheat of the Balance

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To enhance the accuracy of the electronic balance during usage, it is recommended to preheat 15-20 mins after turning on the balance.



# Use and Operation of the Balance

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## Weighing

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- 1 Place the item to be tested on the weighing pan. Wait until the stable indicator "o" appears in the upper left corner of the screen.

o  
+ 78.00 g

This indicates that the value is stable; and the balance displays the weight of the item at this time.

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- 2 If a second item needs weighing, press "TARE" key to make the balance display "0".



0.00 g

- 3 Put the second item on top and the displayed value will be the weight of the second item.

+ 130.00 g

- 4 If you need the combined weight of this item and a second item, press the "TARE" key. The screen will display "0".



+ 0.00 g

- 5 Remove all items from the weighing pan. The displayed value is the weight of the two items.

-  
\* 208.00 g

# Use and Operation of the Balance

## Unit Conversion

The balance has multiple weighing options to meet different needs:  
(g, ct, oz, ozt, dwt, t, lb, tmr, tl)

- 1 Remove the items from the weighing pan. Press "TARE" key, make sure the balance display shows "0".

TARE



0.00 g

- 2 Place the item to be tested on the weighing pan. When the stable sign "o" appears, it means the value is stable and it is the actual weight of this item.

o + 78.00 g

- 3 Press the "UNIT" key one time. The value displayed on the Balance is the value of the unit in Carats.

UNIT



+ 390.00 ct

- 4 Press the "UNIT" key and the displayed value of the balance will be converted into another unit. Press the "UNIT" key until you reach the desired unit of measure.

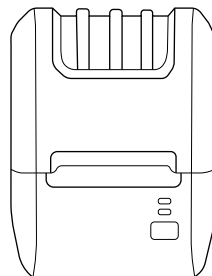
UNIT



+ 78.00 g

## RS232 Output Interface

The balance has an RS232 output interface, which supports connecting to a thermal printer to output data, etc.





# Use and Operation of the Balance

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## Counting

The balance has the function of counting the number of items.

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- 1 Remove items from Balance and press the "TARE" key. Display shows "0".

TARE



0.00g

- 2 Put 10 pieces of the item that needs to be counted on the weighing pan. After the reading is stable, press the "PCS" key.

PCS



+ 10 PCS

- 3 At this point, add or remove items from the weighing pan. The Balance automatically displays the number of pieces on the weighing pan.

+ 98 PCS

- 4 If you need the weight of the pieces counted, press the "PCS" key again which exits from the counting function and returns to the weighing state. The display will then show the corresponding weight.

PCS



+ 196.00g

## 5 Precautions

- ① For items to be counted, different sample sizes should be set based on their weights. Lighter samples should use larger sample sizes.
- ② The individual weight of each item should be greater than 10d, and the weight difference between counted items should be smaller than the precision of the scale.
- ③ The default sample size for counting function is set to 10, but it can also be selected as 20, 50, or 100.

# Use and Operation of the Balance

## Calibration

The preheated balance should be calibrated before use for accuracy.

### 1. TARE Weight

Remove the item from the weighing pan, press "TARE" key to make the balance display "0".



### 2. Change Display to FO

Long press "MODE" key to make the Balance display "FO".



### 3. Print

Press the "Print" key; "LoRd" and "Number" will flash. Place the weight relative to the number, and wait for 3-5 seconds.

### 4. Calibration is complete...

when the backlight of the screen is on, the stable symbol "o" is in the upper left corner, and display returns to the weighing state automatically. After calibration, remove the weight.



### 5. Precautions

Calibrate when the balance is unstable, or there are items on the weighing pan. The screen will display "CALF" and the next step cannot be performed. You need to transfer the Balance to a flat ground or table and perform the sixth operation step.



### 6. Linear Calibration

Press and hold the "MODE" key. When display shows "FO", press the "PRINT" key. After the calibration range appears, press the "MODE" key again and place a calibration weight on the Balance according to the displayed value. (Non-professionals are not allowed to do this step.)

# Miscellaneous

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## Troubleshooting

Problem	Cause	Solution
Display not shown	Power is not connected	Check power and charger
Display shows "L"	Weighing pan is not placed	Reposition the weighing pan
	Balance is not calibrated	Recalibrate the Balance
Display shows "H"	Overweight	Remove the items from the pan
	Balance calibration error	Recalibrate the Balance
Unstable display value	Weighing pan not placed well	Reposition the weighing pan
	There is vibration or airflow	Choose the right environment
Large display value error	"TARE" was not done before weighing	Please "TARE" before use
	Balance is not calibrated	Recalibrate the Balance
Display shows "LO"	Low battery	Turn off and charger for 12 hours

# WARRANTY CARD

Product Name:

Invoice No. :

Model:

Purchase Date:

Serial Number:

Distributor:

Repair Record:

Phone:

Date	Fault Conditions
1	
2	
Repairer	Repair Plan
1	
2	

This product, if purchased from our company, has a one-year free warranty period, valid with proof of warranty card and invoice. During the warranty period, all production quality problems that occur within the normal use will be repaired or replaced free of charge after our inspection and confirmation.

The following situations do not apply to the scope of free services:

1. Damage caused by user repairs or repairs agent not designated by us
2. No valid purchase invoice or warranty card; or if invoice has been altered
3. Damage caused by external factors such as abnormal voltage (or Water/Fire)
4. Damage caused by failure to follow the instructions

In these cases, we are not responsible for product quality and can repair at a price