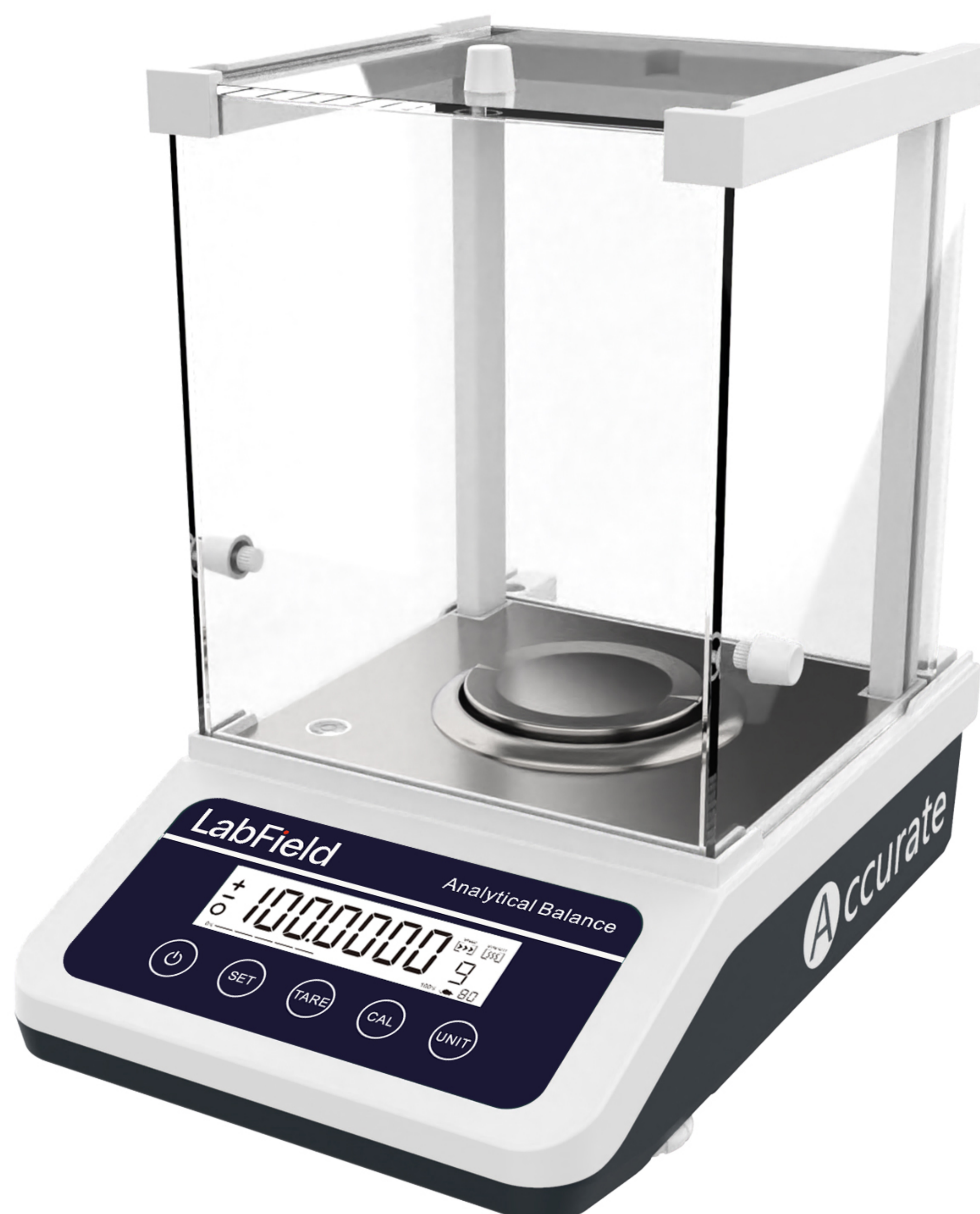


LabField

102740 Electronic Balance, 220g/0,1mg



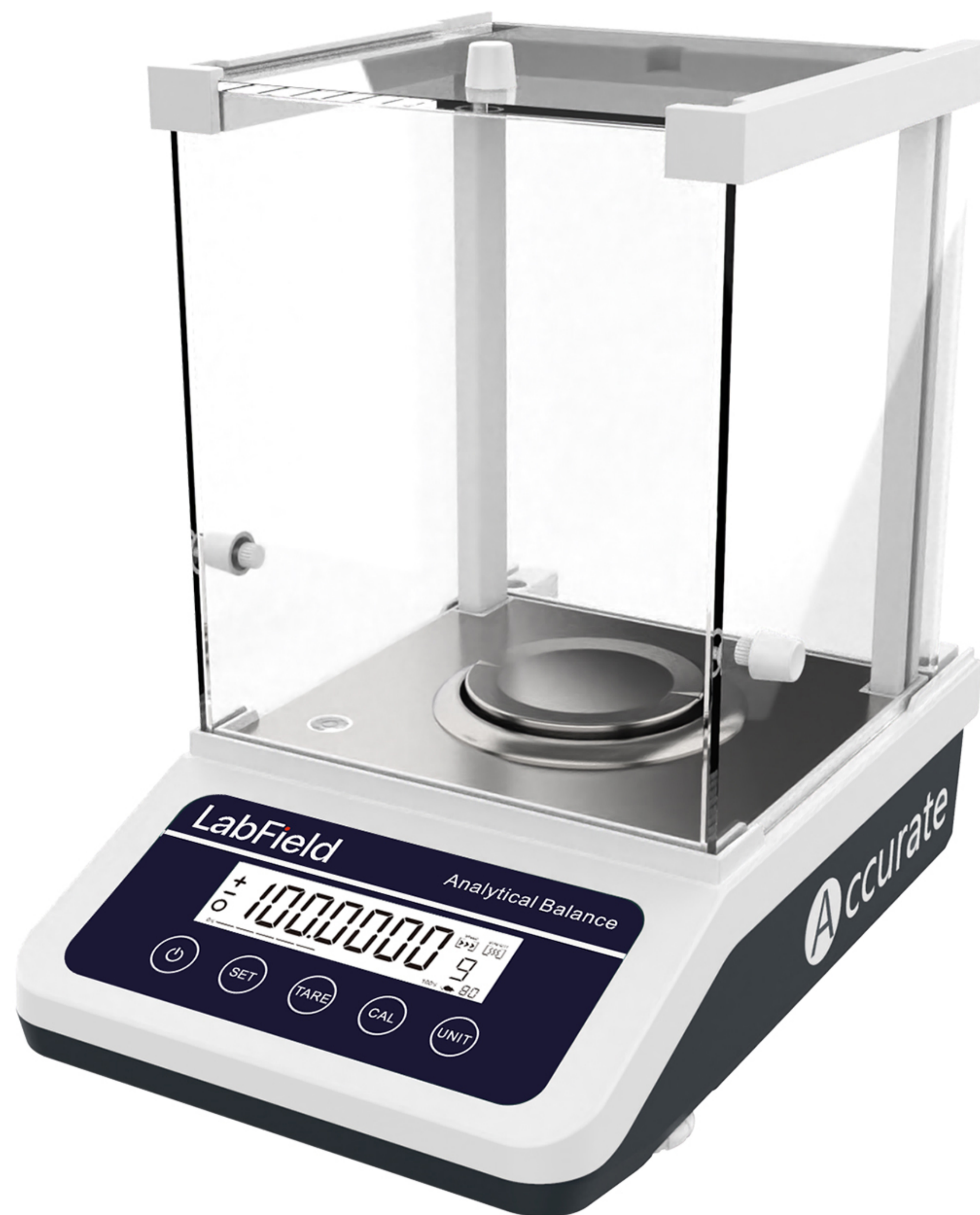
User manual

I: Product brief

Labfield manual is used for 102740 multifunctional analytical balance. 102740 multifunctional electronic balance is a new generation product newly developed. Using high-precision electromagnetic force balance sensor. It makes the measurement results more accurate, faster response, and fewer failures. 102740 multifunctional electronic balances have:

- Fast weighing. The speed can be adjusted
- Easy to operate
- Full range tare, clear, accumulate, overload, underload display, fault alarm within the full range;
- Counting function
- Optional configuration and function expansion

II: Product overview

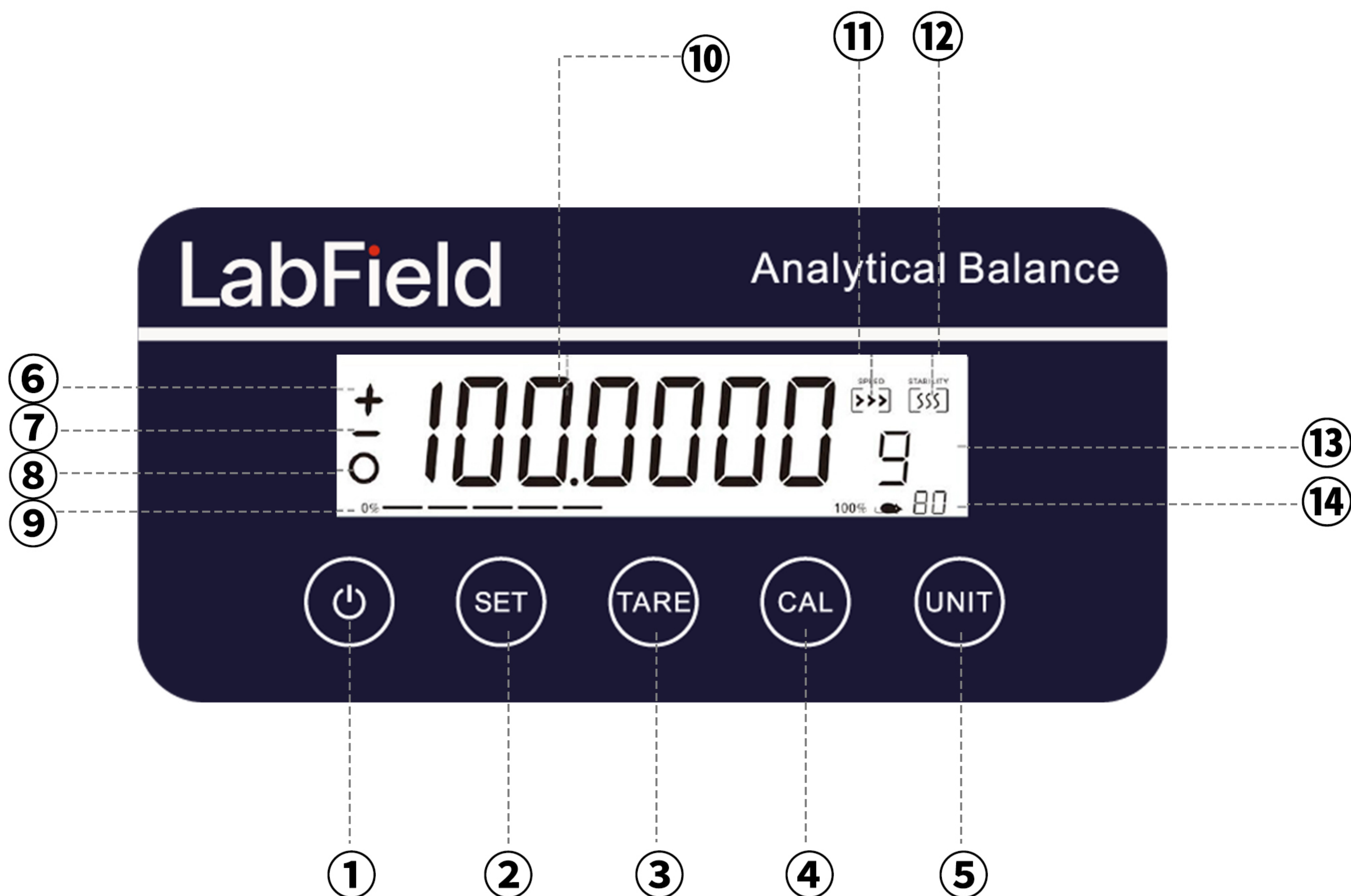


III: Product introduction



IV: Product data

Max.CAP	①
Accuracy	220g
Readability	0.0001g (0.1mg)
Repeat ability	±0.0002g
Liner	±0.0003g
Stable time	≤3s
Operation temp	5°C ~ 35°C
Pan size	Φ80mm
Dimensions	300X200X295mm
Power Supply	Adapter
Cal	External (Internal optional)
G.W	8.0kg
N.W	6.0kg
Package Size	425x320x415mm
Interface	RS232 (USB made custom)



NO.	FUNCTION
①	POWER
②	SET
③	TARE(→O/T←),CONFRIM
④	CAL
⑤	UNIT
⑥	+
⑦	-
⑧	Stability indicator
⑨	Range progress bar
⑩	Weighing
⑪	SPEED
⑫	STABILITY
⑬	UNIT
⑭	Animal weighing

V: Operation Guide

Choice of working environment

- If conditions do not permit, the working environment should be selected according to the following requirements:

1. The studio should be kept clean and dry;
2. The balance should be placed on a stable and fixed workbench (it is recommended to be placed on a marble platform);
3. The workbench should be far away from doors and windows, so as to reduce the influence of airflow caused by opening windows and doors;
4. The workbench should be set up where there is little vibration interference. The surroundings of the room are less affected by vibration, and the ideal position of the workbench should be placed;
5. The balance should be placed in a place that is easy to cause temperature changes, such as avoiding direct sunlight and away from heaters;
6. Please avoid connecting with large machines or devices with interference, and avoid the interference of other devices;
7. The dry environment is prone to static electricity, so corresponding measures can be taken to avoid the influence of static electricity on weighing.
8. Keep the balance away from objects and equipment with magnets or capable of generating magnetic fields;
9. The balance shall not be used in areas with explosive danger;
10. Do not use the balance for a long time in a high humidity or high dust environment;
11. When the balance is transferred from a colder environment to another warmer environment, the moisture in the air will be on the balance.

The internal condensation of the weighing system affects the accuracy and reliability of weighing. In order to eliminate the influence of moisture condensation, the balance can be left unplugged at room temperature for 2 hours before use.

Installation

- Put the weighing pan on first, then plug the power adapter plug into the balance, then plug the power supply (input voltage 220V) and wait for it to turn on. Please place the weighing pan correctly, otherwise a prompt will appear that the weighing cannot be performed.

VI: OPERATION

- Before using the balance, the balance should be placed horizontally. Use the adjustment foot screw at the bottom of the balance to adjust the level, so that the bubble in the leveler is adjusted to the center of the circle, and then quickly press the POWER button to turn on the display. To ensure accurate weighing of the balance, please ensure that the balance is fully warmed up (the recommended warm-up time is one hour).

Calibration

- Cal Weight 200g.

- Cal.step

The balance need calibration when it not accurate, the step as:

- Keep the balance in the stable environment and stable table, Warm up the balance more than 1hours.
- Press"CAL" key, and it will going internal calibration, when it show 200.0000g, the calibration finish.

Note: If you need to calibrate by mass weight, Pls press **SET** to enter menu,then press **SET** until it shows CAL.

- Cal.time setting

1.Press **SET** to enter menu,then press **SET** until it shows"AUTO CAL";

2.Press **TARE** to set calibration time, it shows" 10min, 20min,30miin,40min,50min,60min,70min,80min, 90min,off",press **UNIT** to choose what you need, press **TARE** to confirm which one you need.

Calibration

- Unit conversion

1.Press **SET** to choose



2.Press"O/T"to enter:



3. Press "UNIT" choose what you need, press "O/T" confirm the unit.



9.07 mg

- Speed Setting

1. Press **SET** until it shows "SPEED"



2. Press **UNIT**, **▶▶▶** highest speed, decreasing in order, **◀◀◀** lowest speed, press **TARE** to confirm.

- Sensitivity Setting

1. Press **SET** until it shows "STAB", press **TARE** enter STAB setting



2. Press **UNIT** to choose sensitivity, **◀◀◀** Poorest Sensitivity, **▶▶▶** High Sensitivity, press **TARE** to confirm.

- Counting

There are counting functions in the balance, and you can use this for count the quantity. And please keep the products have the same weight, and the minimum weight must be $\geq 0.5\text{mg}$.

The details operation as blow:

1. Press **SET** to enter menu, then press **SET** unit it shows "COU";



2. Press **TARE** to enter, it shows " COU 5pcs";



3. Press **UNIT** to choose sample quantity, put matched quantity, press **TARE** ,it shows ;



4. When "COU" disappearing, showing digital, then you can operate



5. After testing, press **SET** to choose "weight", press **TARE** back to weighing.



- Factory settings

1. Press **SET** until it shows “DEFUALT”



2. Press **TARE** to confirm.

- Percentage function

1. Press **SET** enter menu, then press **SET** until it shows “PCT”;



2. Press **TARE** enter percentage function, it shows “ PCT 100”;



3. Put 100% sample, press **TARE** enter percentage weighing.

- Peak hold

The steps are as below:

1. Press **SET** enter menu, then press **SET** until it shows “PEAK”;



2. Press **TARE** enter peak hold function, it shows “ON/OFF”, press **UNIT** to choose, press **TARE** to confirm ON/OFF;

ON OFF

- Baud rate choosing

The steps are as below:

1. Press **SET** to enter menu, then press **SET** until it shows “BAUD”;

BAUD

2. Press **TARE** to enter baud rate choosing, it shows “1200”, press **UNIT** to choose what you need, press **TARE** to confirm ON/OFF.

- Data transmission method

The steps are as below

1. Press **SET** to enter menu, then press **SET** until it shows “SEND”;

SEND

2. Press **TARE** to enter function, it shows “CON”, press **UNIT** to choose, press **TARE** to confirm

SEND

:Press button to send weighing data

CON

:Continuous output of weighing data

CON_STA

:Continuously output stable data

VII: DATA OUTPUT

1	Model or a decimal point
2	A space or a decimal point
3	A space or *
4	+ or - or a decimal point
5	data
6	Data or a decimal point
7	Data or a decimal point
8	Data or a decimal point
9	Data or a decimal point
10	Data or a decimal point
11	Data or a decimal point
12	Data
13	Unit 1
14	Unit 2
15	Unit 3
16	Enter
17	Wrap

VIII: MAINTENANCE

- The 102740 multifunctional electronic balance is a precision mechatronics intelligent measuring instrument, so it must be treated as seriously and carefully maintained as other precision instruments.
 1. Do not use sharp objects (such as pencils, ball-point pens) to press keys, only use your fingers to press keys;
 2. Be careful not to let objects fall from a high place on the weighing pan, so as not to damage the weighing mechanism;
 3. Do not expose the balance to high humidity or dusty environment for a long time;
 4. After the balance is used up, it is best to cover it with a cover to prevent dust intrusion;
 5. When weighing powder and fine particles, please use it with the container to avoid dust and particles falling into the load cell under the weighing pan;
 6. Please wear gloves when calibrating with weights, and do not take the weights directly with your hands;
 7. Keep the balance clean and dry.
- Matters needing attention when cleaning:

Before cleaning, unplug the power supply;
Do not use corrosive cleaning agents (such as solvents). Use a lint-free soft cloth dipped in water and then some neutral detergent (soap) for cleaning.

When cleaning, be careful not to let water drop into the balance;

After cleaning, wipe the balance carefully with a soft, dry, lint-free cloth.

Delivery list

- Balance
- Weighing pan
- weight
- Power adapter
- Instruction manual

