



BL224 Touch

Electronic Analytical Balance

USER MANUAL

I About the Balance

Specification

Model	Range	Division	Repeatability	Linearity	Pan Size
BL224 Touch	220g	0.1mg	0.2mg	0.5mg	ø 80mm

Features

Stainless Steel Pan

Super 5 inch Touch panel display

RS232 Interface

Mains adapter supplied as standard

Windshield supplied as standard

Height adjustable feet

Internal Auto Calibration

Selectable measure units:mg, g, oz, ct

Memory for accumulated time

Applications

Weighing

Net weight / tare

Below balance weighing

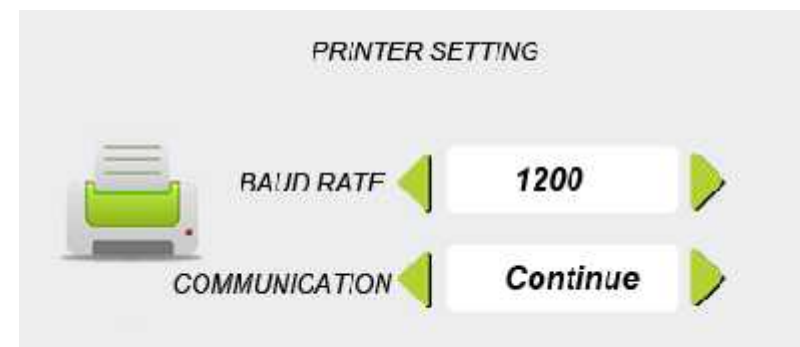
Piece counting function

Density Test

Percentage Test

9.1 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

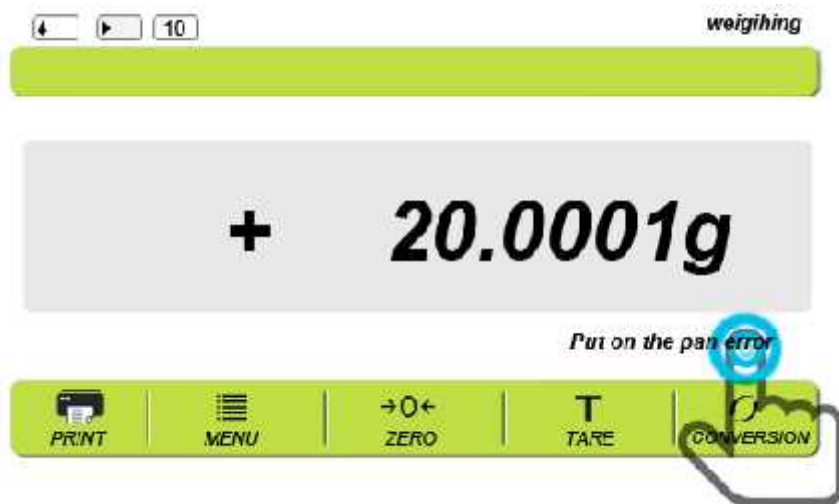


We can choose the suitable baud rate and communication style for different print or connect to the computer

8.1 FAULT JUDGMENT

If you come across any problem, you can check the reasons.

FAULT	RESON	EXCLUDE
No display	Not connected to the power supply; Fuse is broken; Power supply damaged;	Plug in the power line; Replace the fuse; Replacement of power transformer; Contact factory
Weighing unstable	Bad working conditions; The wind screen is open; Something between the table and balance; The power unstable; Weighing unstable;	Keep the environment stable, close the windows and doors; Close the glass door;
The weighing is wrong	The balance not calibrated. No tare before weighing. No well leveled.	Calibration. Tare before weighing. Adjust the level feet.



SETTINGS

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1.0 KNOW YOUR BALANCE

Thank you for selecting the BL 224 Touch Analytical Balance.

This Instruction Manual will guide you of the installation, accessories, trouble-shooting, after sales service information, general maintenance of the balance, etc. it will also guide you through the various applications.

Please read this Manual thoroughly before starting the operations. If you need any clarifications, feel free to contact us.

The BL 224 Touch balances are ideal for laboratory and general purpose weighing. The balances can also be used for some advanced weighing functions.



FEATURES:

Stainless Steel Pan

Super bright LCD display with backlight

RS232 Interface

Adapter supplied as standard

Windshield supplied as standard

Height adjustable feet, Bubble Level

Internal Auto Calibration

Selectable measure units, g, oz, ct,mg

Memory for accumulated time

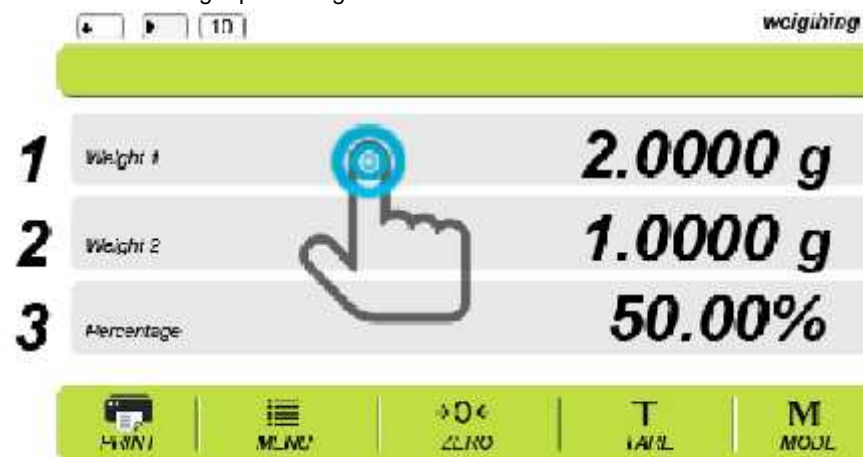
Weighing function

Piece counting function

Below balance weighing

7.5 PERCENTAGE FUNCTION

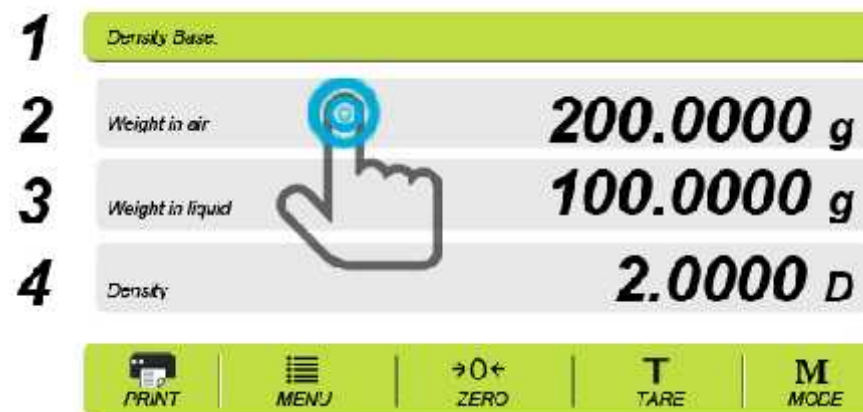
Check the weight percentage function:



1. Choose the 100% which you will put on the pan
2. Touch the weighing value you want weighing, here is the sample weight, after the weighing stable touch again, the result will check and store.
3. Touch here and weighing the total weight, and touch again check the weight.
4. The percentage will be show here.

7.6 Density Function.

Same operation with density function, just touch the air weight and weighing in the air, then weighing in the liquid, the result will show in the display.



7.2 SPEED SETTING

---Highest Speed

--Normal Speed

--Low Speed

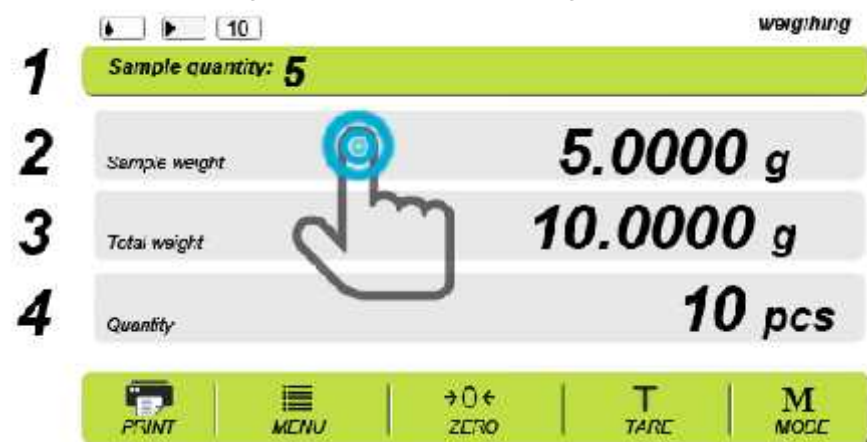


7.3 WEIGHING UNIT SETTING

Under the weighing state, press "CONVERSION" to choose the unit. There are 4 units :g/ct/oz/mg.

7.4 COUNTING FUNCTION

There are counting functions in the balance, And please keep the products have the same weight, and the minimum weight must be 0.5mg.



1. Choose the sample quantity which you will put on the pan
2. Touch the weighing value you want weighing, here is the sample weight, after the weighing stable touch again, the result will check and store.
3. Touch here and weighing the total weight, and touch again check the weight.
4. The quantity will be show here.

2.0 SPECIFICATIONS

Model	BL224 Touch
Range	0-220g
Division	0.1mg
Repeatability	0.2mg
Linearity	0.5mg
Resp. Time	4 Sec.
Pan Size	ø80mm
Interface	RS-232 bi-directional
Overall Dimensions	340 x 215 x 350mm
Operating temperature	+10°C to 40°C
Power Supply	Output voltage 5 VDC, 600mA through External Power Adapter as standard (Input Voltage 220 V)
Net Weight	8.5 kg

3.0 UNPACKING THE BALANCE

Remove the balance from the packing by carefully lifting it out of the box. Inside the box you will find everything needed to start using the balance

4.0 CALIBRATION THE BALANCE

Press "CAL" key, and it will show and shining: CAL-XXX.XXXX, and the balance begin internal calibration.

You also can choose manual calibration with standard weight, and there will have the notes tell you step by step:



5.0 LOCATING THE BALANCE

- The balance should not be placed in a location that will reduce the accuracy.
- Avoid extremes of temperature. Do not place in direct sunlight or near air conditioning vents.
- Avoid unsuitable tables. The table or floor must be rigid ,no vibration.
- Avoid unstable power sources. Do not use near large users of electricity such as welding equipment or large motors.
- Do not place near vibrating machinery.
- Avoid high humidity that might cause condensation. Avoid direct contact with water. Do not spray or immerse the balances in water.
- Avoid air movement such as from fans or opening doors. Do not place near open windows or air-conditioning vents.
- Keep the balance clean. Do not stack material on the balances when they are not in use.

6.0 SETTING UP THE BALANCE

6.1 ASSEMBLING THE BALANCE

- Locate balance on solid surface, free from vibration
- Open the sliding door and gently place the stainless steel top.
- Level balance using the adjustable feet and the bubble level
- Connect the power to the balance
- For best performance, let the balance warm up for 30-60 min. and calibrate before using

6.2 LEVELLING THE BALANCE

After placing the balance in a suitable place, level it by using the bubble level. To level the balance turn the two adjustable feet at the rear of the balance until the bubble in the bubble level is center.

7.0 OPERATION SETTINGS



- 1.State Icon
2. Function State
- 3.Weighing Digits
- 4.Notes
- 5.Operation Keys

7.1 SENSITIVITY SETTING

--Highest Sensitivity -Normal Sensitivity -Sensitivity

