

Electronic balance

LABOTRIX BALANCE W1

PRODUCT PASSPORT

Kyiv

2026

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1. General Information about the Product

- 1.1. **Product name** — Electronic laboratory scales.
- 1.2. **Trademark** — Labotrix.
- 1.3. **Model** — Balance W1; full trade designation — LABOTRIX BALANCE W1.
- 1.4. **Manufacturer** — Labotrix Group Limited, China.
- 1.5. **Intended use:** a device for precisely determining the mass of substances and objects in educational institutions. The scales are used in chemistry, physics, and biology lessons, and in laboratory practicals, when dosing reagents and measuring the mass of solutions and solid materials. The device allows determining mass together with a container (taring), as well as counting the number of identical items by their combined mass.
- 1.6. **Design features:** a compact digital device with a liquid-crystal display, simple controls, and automatic shutoff. The weighing platform is mounted on a stable base. The device is powered by batteries and does not require an external power source.

2. Technical Specifications

- Brand — Labotrix
- Model — Balance W1
- SKU — LTX-BALANCE-W1
- Device type — Electronic laboratory scales
- Maximum weighing capacity (gram) — 500
- Measurement resolution (gram) — 0.1
- Measurement accuracy (gram) — 0.1
- Units of measurement — grams, ounces, pounds, kilograms
- Taring range — across the entire weighing capacity
- Display — liquid-crystal, five-digit
- Automatic shutoff — after 60 seconds of inactivity
- Power supply — battery-powered, battery type indicated on the housing
- Operating temperature (°C) — from 5 to 35
- Housing material — plastic
- Platform material — plastic or metal
- Language of marking and operating documentation — Ukrainian
- Product marking — trademark, model and a space for the inventory number
- Packaging — individual box of corrugated cardboard with the contents secured
- Documentation supplied — product passport with warranty card and operating manual
- Installation method — tabletop, on a level horizontal surface
- Surface care — the platform and housing may be wiped with a dry or slightly damp cloth
- Service life (year) — 5
- Warranty period (month) — 12

3. Package Contents

- Electronic scales, assembled — 1 pcs

- Power batteries (type and quantity indicated on the housing) — included or sold separately
- Product Passport and Warranty Card — 1 pcs
- Packaging for storage and transportation — 1 pcs

Batteries may be supplied separately depending on the sales region. Consumable components, such as batteries, are not covered by the warranty. The device does not require any adjustment before first use.

4. Safety Precautions

4.1. General requirements

- Before first use, read this passport and keep it together with the device.
- The device is operated by a teacher or specialist familiar with the operating rules. Students use the scales only under adult supervision.
- Place the device on a level, stable, horizontal surface, away from moisture and fluctuations.
- Protect the device from impacts, drops, and mechanical damage.
- It is prohibited to expose the device to extreme temperatures, moisture, or aggressive chemical substances.

4.2. Electrical safety and moisture protection

- The device is powered by low-voltage batteries — this is safe for the user.
- Do not wash the device under running water or immerse it in liquid.
- Do not allow moisture to enter the housing through the ventilation openings.
- If water gets inside, stop using the device and contact a service center.
- Do not disassemble the device to clean internal parts.

4.3. Safety when working with reagents and materials

- Place substances on the weighing platform in special containers (a bowl, a glass vessel).
- Do not place liquids and solutions directly on the platform — this will damage the device.
- Make sure aggressive and corrosive substances are not spilled on the device's housing.
- After each measurement of the weighed substance, remove the container and wipe the platform with a dry cloth.

4.4. It is strictly prohibited

- Exceeding the maximum weighing capacity indicated on the device's housing.
- Dropping objects onto the platform or abruptly setting down heavy loads — this will damage the sensor.
- Using the device as a support for other objects or as a tabletop.
- Repairing the device yourself or disassembling it without authorization.
- Using the device outside the operating temperature range (above 35 °C or below 5 °C).
- Storing the device in conditions of high humidity or near heat sources and direct sunlight.

5. Preparation for Use

- 5.1. Remove the device from the packaging and place it on a clean, level, horizontal surface, away from drafts and vibrations.
- 5.2. Insert the batteries into the battery compartment according to the polarity marks (+ and —). Make sure the compartment cover is closed tightly.
- 5.3. Press the ON/OFF key to turn on the device. Symbols and the digits "0.0" (or "0") should appear on the display.
- 5.4. Let the device remain switched on for 1—2 minutes to allow the readings to stabilize. If the device was transported or stored at a temperature below 5 °C, let it sit at room temperature for at least one hour before use.
- 5.5. Make sure the platform is clean and dry. Wipe it with a soft cloth if necessary.
- 5.6. The scales are ready for use. At first use, it is recommended to perform a trial weighing with a known mass to check accuracy.

6. Operating Procedure

6.1. Basic weighing

Press ON/OFF and wait for zero to appear on the display. Place an empty bowl on the platform and wait for the reading to stabilize. Press TARE — the display will show 0.0. Place the substance in the bowl — the display will show the net weight.

6.2. Selecting the unit of measurement

Press MODE one or more times until the desired unit (g, oz, lb, kg) appears on the display. The available units depend on the device model. The current unit is retained until the next shutdown.

6.3. Display backlight

Press LIGHT to turn the display backlight on/off. This is useful when working in low-light conditions.

6.4. Item counting mode (PCS)

Place a known quantity of identical small items on the platform (25, 50, 75, or 100 pcs.). Press and hold PCS for 2 seconds — the display will show "100". Press MODE to select the quantity in the reference portion. Confirm the selection with the PCS key. Now you can place the items you want to count — the device will show their quantity.

7. Care, Maintenance and Troubleshooting

7.1. Cleaning and maintenance

- Wipe the housing and platform with a soft, dry, or slightly damp cloth.
- Remove dust and minor dirt with a soft-bristle brush.
- Do not use abrasive materials, organic solvents, acetone, or aggressive cleaning agents.
- Wipe the platform dry after each measurement, especially if a damp substance was weighed.
- Do not allow dust to accumulate in the device's slots and openings.

7.2. Periodic inspection

- Once a month, check whether the device shows zero when turned on and with an empty platform.
- If the readings do not return to zero, press TARE to calibrate.
- Replace the batteries if the display dims or the readings become unstable.
- The product does not require regular calibration by the user; accuracy limits are checked only at a service center.

7.3. Possible malfunctions and methods of their elimination

Symptom	Possible cause	User actions
Device does not turn on	Discharged batteries, incorrect installation	Replace the batteries, check the polarity
No readings visible on the display	Display is off, batteries discharged	Press LIGHT, replace the batteries
Readings are unstable or jump around	Device is standing on an uneven surface, vibration, dirty platform	Move to a level location, wipe the platform, avoid vibrations
Readings are overstated and do not reset to zero	Platform is dirty, sensor is damaged	Clean the platform, press TARE; if this does not help, contact service
Device keeps turning off	Batteries are hot or discharged, electronics malfunction	Replace the batteries, let the device cool down; if necessary, contact service

8. Storage and Transportation Conditions

- Store the device in a dry room at a temperature not below +5 °C and not above +40 °C, relative humidity up to 80 % without condensation.
- Protect from dust, moisture, direct sunlight, and vibrations.
- During long-term storage (more than a month), remove the batteries to avoid corrosion caused by electrolyte leakage.
- Transport the device in its original packaging or in a rigid box with soft material inside.
- Do not place heavy objects on the packaging.
- The storage period before commissioning is unlimited, provided that temperature and humidity conditions are observed.

9. Warranty Obligations

- 9.1. The warranty period of operation of the product is 12 months from the date of sale specified in the warranty card.
- 9.2. The manufacturer guarantees that the product conforms to the declared technical specifications provided that the transportation, storage and operating rules set out in this passport are observed.
- 9.3. During the warranty period, defects of the product that have arisen through the fault of the manufacturer are remedied free of charge. The

method of remedy (repair, replacement of a component or replacement of the product) is determined by the service center.

- 9.4. Warranty service is provided on presentation of a correctly and completely filled-in warranty card and of a document confirming the fact and the date of purchase.
- 9.5. The warranty does not cover cases where the malfunction is caused by:
- mechanical damage, in particular cracks, chips and deformation of the housing and of the components of the product;
 - violation of the operating, storage or transportation rules set out in this passport;
 - ingress of liquid or foreign objects into the product, and also the action of insects and animals;
 - independent disassembly, repair or modification of the product, in particular repair at unauthorized workshops;
 - use of the product other than for its intended purpose;
 - force majeure circumstances (fire, flood, earthquake, etc.).
- 9.6. The warranty does not cover the natural wear of the coating and of the appearance of the product, nor consumables.

10. Product Disposal

- The product must not be disposed of together with unsorted municipal waste. This is indicated by the marking in the form of a crossed-out container on the product or its packaging.
- After the end of the service life, hand the product over to a collection point for the corresponding waste or to an organization holding the appropriate permit.
- Hand over the packaging elements (cardboard, polymer materials) to the corresponding streams of recyclable materials.

Contacts

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Conditions of use and storage of the product

The product is intended for educational work in general secondary education institutions and is used only under the control and supervision of a teaching staff member; the recommended age of students — from 10 years, that is, students of grade 5 and of higher grades. Keep the product in a dry, clean and ventilated room at a temperature from +5 to +40 °C and relative air humidity up to 80 % without condensation, separately from heat sources and out of direct sunlight, moisture and dust. Use the product exclusively for its intended purpose and do not allow drops, impacts or other mechanical damage. If you notice damage, a crack or any malfunction, stop working with the product immediately and inform the teacher or the responsible person of the educational institution; repairing the product on your own is prohibited.

WARRANTY CARD

Name:	Electronic balance
Product model:	LABOTRIX BALANCE W1
Serial number:	
Date of sale:	
Warranty period:	12 months from the date of sale
Trading organization:	
Signature of the seller:	

The goods have been received in working order, without visible damage, complete, and have been checked in my presence. I have no claims regarding the quality of the goods; I have read and agree to the operating and warranty service conditions.

Full name of the buyer _____

Telephone of the buyer _____ Signature of the buyer _____

Dear Customer!

Thank you for choosing Labotrix products. After-sales service of this product is provided in accordance with the regulations of the company and the legislation of the country of sale. So that we can serve you quickly and without unnecessary formalities, check that this warranty card is filled in correctly at the moment of purchase and keep it together with the payment document throughout the entire warranty period. When applying for repair, hand the product over to the seller or to the service center together with the filled-in card.

Procedure for applying

1. The right to free warranty service of the product is valid for 12 months from the date of sale specified in the warranty card. Within this period, components that have failed because of a manufacturing defect are repaired or replaced at no cost to the buyer.
2. Before applying, make sure that the malfunction is not caused by the reasons listed in section 9 of this passport and, if possible, use the table of possible malfunctions in subsection 7.3.
3. After the end of the 12-month warranty period, repairs are performed on a paid basis; the cost of the work and of the spare parts is determined depending on the nature of the malfunction.

Grounds for refusal of warranty service

The company reserves the right to refuse free service or to perform the work on a paid basis if at least one of the following circumstances is established:

- absence of the warranty card, its incomplete or corrected completion, and also the absence of a document confirming the purchase;
- non-conformity of the serial number of the product with the number specified in the card, or damage to the factory marking;
- traces of independent disassembly, repair or modification of the product;
- damage caused by violation of the operating rules, connection to an unsuitable power source or external mechanical impact;
- damage as a result of force majeure circumstances.

Service Records

Date of entry	Description of the malfunction	Work performed	Position, signature, full name of the responsible person